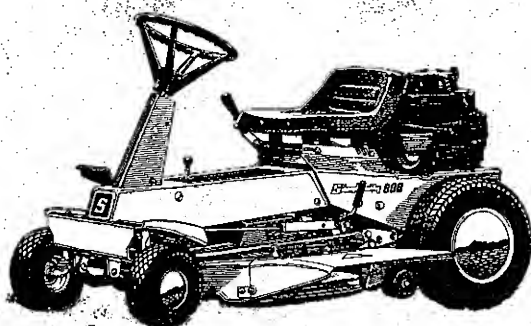


Simplicity®



OWNER'S MANUAL

With
ILLUSTRATED PARTS LIST

MFG. NO. 998 WONDER-BOY 808 ELECTRIC START
MFG. NO. 1000 WONDER-BOY 808 MANUAL START
MFG. NO. 1030 REAR MOUNTED GRASS CATCHER

SIMPLICITY MANUFACTURING COMPANY, INC.



1653 #

SER. FORM - 178081
LITHO IN U.S.A.

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SIMPLICITY'S NEW EQUIPMENT WARRANTY

The Company warrants Simplicity products to be free from defects in material and workmanship, except the Company makes no warranty, express or implied, with respect to tires, engines, generators and voltage regulators, which are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year (45 days for equipment used for rental, municipal or commercial purposes) under normal use, from date of purchase, will be replaced without charge, provided such part is returned to the factory, (if requested), and is found to be defective upon examination at the factory. This warranty does not apply to any Simplicity products altered outside of the Simplicity factory. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE. The Company's obligation under its warranty is strictly and exclusively limited to the replacement of such parts, and in no event shall the Company be liable for any other damages, whether direct, immediate, incidental, special, or consequential. Simplicity Manufacturing Company, Inc., reserves the right to modify or change specifications without prior notification. There are no warranties which extend beyond the description of any Simplicity product.

SECTION 1. SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

1-1 ENGINE

| | |
|---------------|-------------------------------------------------------------|
| Make | Briggs & Stratton |
| Model No. | 190707 (MFG. No. 998) 190702 (MFG. No. 1000) |
| Type | 0789-01 |
| Horsepower | 8 @ 3600 rpm (Engine Mfr. Rating) |
| Cycles | 4 |
| Cylinders | 1 |
| Bore | 3 inches |
| Stroke | 2-3/4 inches |
| Displacement | 19.44 Cu. In. |
| Crankshaft | Vertical |
| Starter | Automatic Rewind or Electric |
| Ignition | Magneto |
| Governor | Adjustable Mechanical Type 1800-3400 range |
| Air Cleaner | Sealed Housing, Reusable Oiled Foam Element |
| Choke | Chokematic |
| Crankcase | Lubrication: Gear Impeller System Oil Capacity: 2-1/4 Pints |
| Fuel Capacity | 3 Quarts |
| Muffler | Quiet Rear Discharge |

1-2 TRANSMISSION

| | | |
|---------------------------|-----------------------------------------------|----------|
| Type | 2 Speed Range Shuttle Drive with Split Sheave | |
| Speeds | Two Forward, Two Reverse | |
| Speed Range (at 3400 rpm) | Forward | Reverse |
| | Low: 2.52 mph | 2.52 mph |
| | High: 3.92 mph | 3.92 mph |
| Differential | Type: All gear, fully enclosed and lubricated | |

1-3 ROTARY MOWER

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Mounting | Suspended from and Tilts with Front Axle |
| Width of cut (Blade) | 30 inches |
| Height of cut | 1-1/2 to 3-1/2 inches |
| Drive | Cushioning V-Belt with Lever Control |
| Adjustment | Stepless Screw Controls Front and Rear Height |
| Spindles | Sealed Rolling Contact Bearing Mounted |
| Rear Support | Three Rollers, 2 at 2 inch, 1 at 3-15/16 " Wide |
| Housing | Drawn Steel, Height above blade in clipping channel area increases from 2-1/2 to 4-1/8 inches above blade. |

1-4 CHASSIS

| | |
|------------|--------------------------------------------|
| Frame | Heavy Gauge Steel-Front and Rear U-Channel |
| Rear Tires | Inflation Pressure: 10 psi |
| | Size: 16.00/6/50 x 8 Turf Tread |
| | Tread Width: 28 inches |

1-4 CHASSIS (Continued)

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Front Tires | Pneumatic, Inflation Pressure: 22 to 25 psi Size - 4.10/3.50 x 4 Turf Tread Bearings: Powdered Iron with Grease Fittings Tread Width: 28 inches |
| Seat | Type: Bucket, Rubber Mounted Cover: Leatherette on bonded foam |
| Turning Radius Stability | Inside Rear Tire: 22 inches For increased stability and traction, install rear wheel weights. |

1-5 CONTROLS

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Steering | Control: Steering Wheel Type System: 3.81 to 1 Ratio |
| Clutch and Brake Pedal | Location: Right Front Clutch: Soft Action, Touch-O-Matic, V-Belt Brake: Foot Operated Band Type |
| Gear Selector | Location: Right side of seat |
| Mower Clutch | Location: Left side of seat |
| Throttle Control | Location: Front center of seat |
| Starter | Location: Manual: Rear right side of engine, has automatic choke Location: Electric: Key under right side of seat, has automatic choke |

1-6 DIMENSIONS

| | |
|-----------------|------------------------------------------------------------------------------------|
| Overall Length | 57-3/4 Inches |
| Overall Width | Without Mower 28-1/4 Inches With 30 Inch Mower and Safety Shield: 40-1/4 Inches |
| Wheel Base | 44-3/8 Inches |
| Shipping Weight | With 30 Inch Mower: 406 Lbs. Manual With 30 Inch Mower: 416 Lbs. Electric |

SECTION 2. SAFETY INSTRUCTIONS

TRAINING

1. Read the Owner's Manual carefully. Be thoroughly familiar with the controls and proper use of the equipment. On riding vehicles, know how to stop quickly.

2. Never allow children to operate a power mower or riding vehicle. Never allow adults to operate any equipment without proper instruction.

3. Keep the area of operation clear of all persons, particularly small children, and pets.

4. Do not carry passengers.

3. Check fuel before starting engine. Do not fill gasoline tank indoors, when engine is running, or while engine is still hot. Wipe off any spilled gasoline before starting engine. Do not run engine indoors.

4. Disengage self-propelled mechanism or drive clutch on units so equipped before starting engine (motor).

5. Never attempt to make a wheel height adjustment while engine (motor) is running.

6. Mow only in daylight or in good artificial light.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.

7. Never operate equipment in wet grass. Always be sure of your footing on walk-behind units; keep a firm hold on the handle and walk; never run.

8. Check battery water level and state of charge.

OPERATION

1. Do not change engine governor settings or over-speed engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of discharge opening at all times.
3. Stop blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop engine (motor) whenever you leave the equipment, before cleaning mower housing, and when making any repairs or inspections.
7. On riding vehicles, take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
8. When cleaning, repairing or inspecting, make certain blade and all moving parts have stopped. Disconnect spark plug wire and keep wire away from plug to prevent accidental starting.
9. Do not run engine indoors.
10. Shut engine (motor) off and wait until blade comes to a complete stop before removing grass catcher and/or unclogging chute.
11. Mow up and down slopes with riding vehicles. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes (greater than 40% grade).
12. Always bring the unit to a complete stop before cleaning, repairing and adjusting.
13. Never operate mower without proper guards, plates or other safety protective devices in place.
14. Keep washout ports and other mower housing service openings closed when mowing.
15. Stay alert for holes in terrain and other hidden hazards.
16. On riding vehicles, use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
17. Watch out for traffic when crossing or near roadways.
18. Never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.

MAINTENANCE AND STORAGE

1. On riding vehicles, disengage power to attachments and stop engine (motor) before leaving operator's position, making any repairs or adjustments, when transporting, or when not in use.
2. Check blade and engine mounting bolts at frequent intervals for proper tightness.
3. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
4. Never store equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
5. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
6. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

SECTION 3. OPERATING INSTRUCTIONS

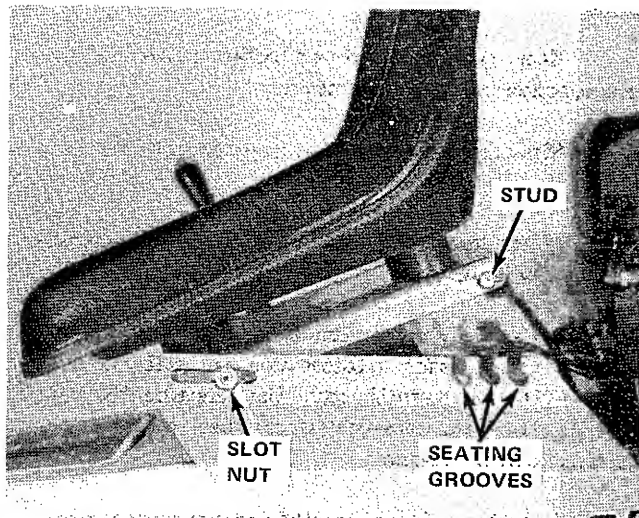


Figure 3-1. Seat Adjustment

3-1 BEFORE STARTING

A. The seat has three sitting positions (Figure 3-1). To adjust for a comfortable position, tilt the seat forward and slide studs in to desired groove. Slot nuts should be tightened to allow free movement of seat assembly.

B. Familiarize yourself with the following control operations:

1. Clutch and Brake Foot Pedal (Figure 3-2). Push pedal down to declutch and apply brake simultaneously. Vehicle may be stopped by depressing clutch pedal or by retaining direction control lever to NEUTRAL without depressing clutch pedal.

2. Throttle Lever (Figure 3-3). Move lever FORWARD to increase speed and toward REAR to slow speed. Mowing should be done at 3/4 to full throttle.

3. Mower Height Adjuster (Figure 3-2). The height adjusting handle raises and lowers the mower at both front and rear. Turn handle CLOCKWISE to raise, COUNTER-CLOCKWISE to lower.

4. Gear Shift Lever (Figure 3-2). Depress clutch and brake foot pedal and place the shift lever in the desired position. The upper position places the transmission in LOW gear, the middle position in NEUTRAL, and the lower position in HIGH gear (Figure 3-9). Gear shift lever must be in NEUTRAL when starting.

5. Direction Control Lever (Figure 3-2). The direction control lever controls the direction of travel. To position lever in either FORWARD, NEUTRAL, OR REVERSE, it is necessary to pull handle inward from notch and then move either forward or rearward as desired.

6. Mower Clutch Lever (Figure 3-3). When mower is engaged the clutch lever is forward and down. Engine

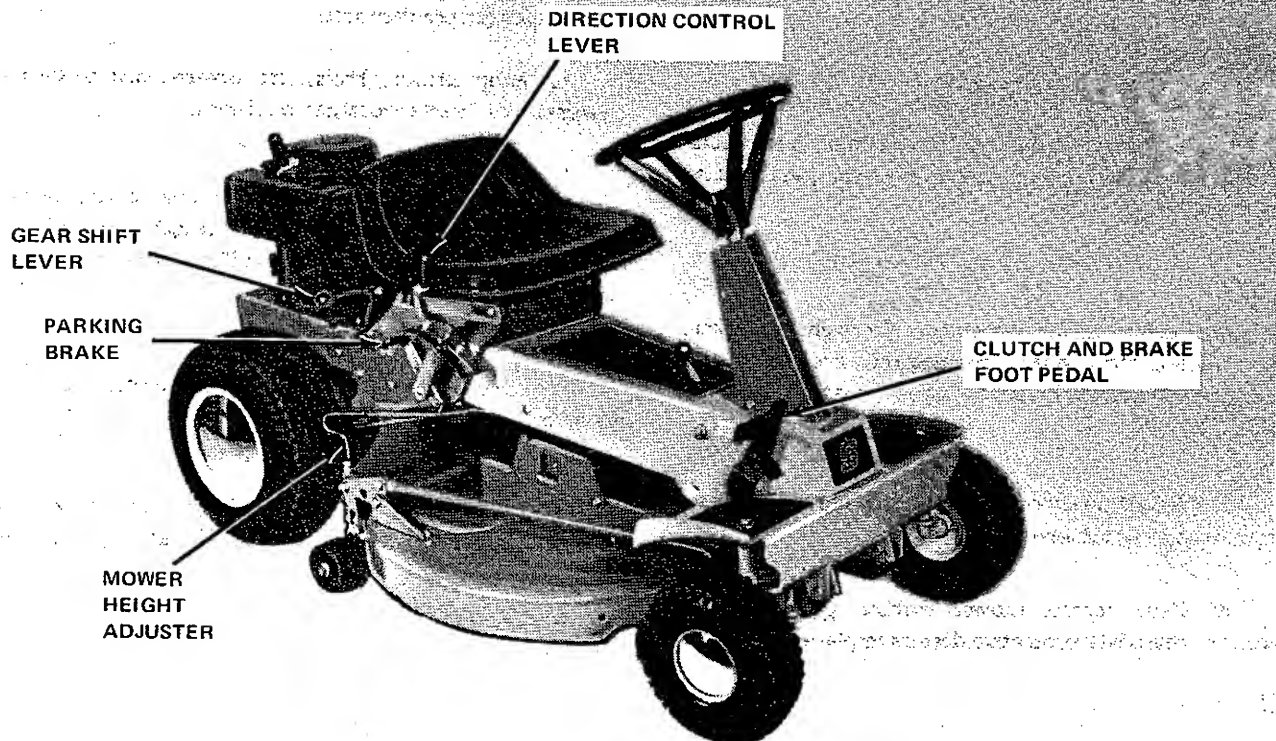


Figure 3-2. Right Side Operation Controls

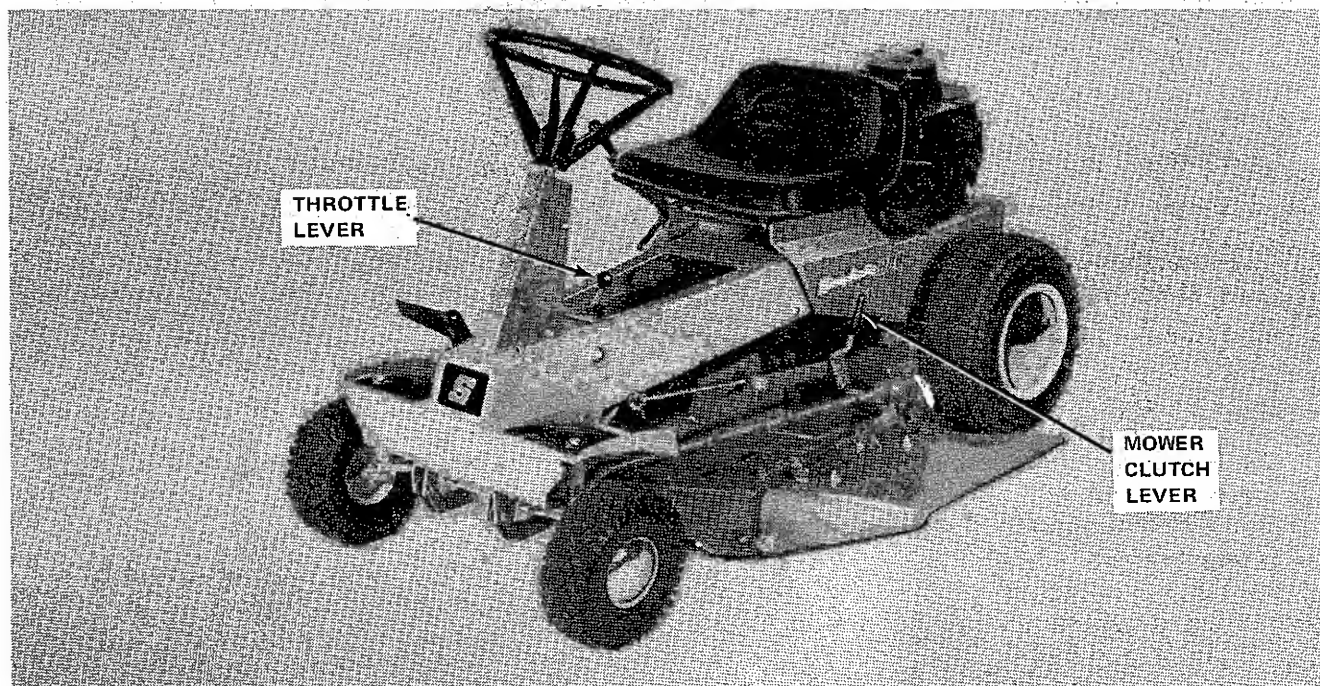


Figure 3-3. Left Side Operation Controls

should be running 3/4 to full speed when the mower drive is engaged. Mower clutch lever must be disengaged before starting engine.

7. Parking Brake (Figure 3-2). To apply parking brake, push lever down.

C. Before attempting to start the engine, read the engine owner's manual thoroughly. Be sure to have on hand sufficient quantities of "Regular" grade gasoline and 10W-30 grade SD/CC, MS, MS/DG, or MS/DM motor oil. (Par. 6-1).

D. Remove the engine crankcase filler cap and gauge (Figure 3-4). Fill the crankcase with 10W-30 grade SD/CC, MS, MS/DG, or MS/DM oil until level reads full on gauge. Crankcase capacity is 2-1/4 pints. Check oil level

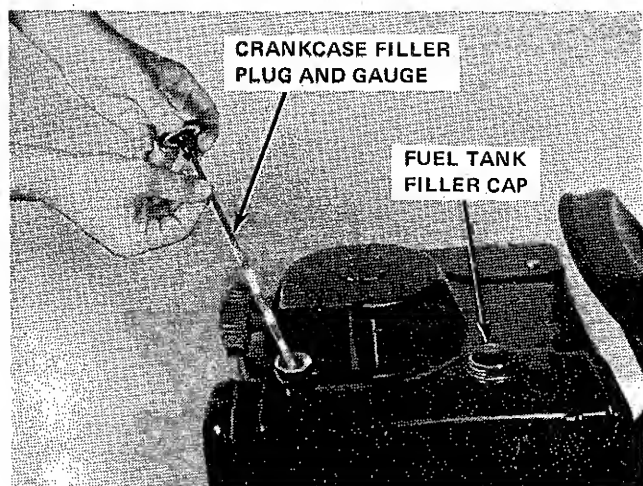


Figure 3-4. Oil and Fuel Fill Locations

every time fuel is added. Use caution not to overfill engine crankcase with oil.

E. Remove the fuel tank filler cap and fill the tank completely with clean, fresh "Regular" grade gasoline. Use a can with a flexible spout.

CAUTION

DO NOT MIX OIL WITH GASOLINE

WARNING

GASOLINE IS HIGHLY INFLAMMABLE. AVOID OVERFILLING AND WIPE UP ANY SPILLED FUEL. ALLOW NO OPEN FLAME, SMOKING OR MATCHES NEAR THE AREA WHEN REFUELING.

Replace the filler cap securely. Store gasoline in small quantities. Prolonged storage produces harmful gum and deposits. If it is necessary to store gasoline for prolonged periods, add STA-BIL brand gasoline stabilizer, available at your Simplicity dealer. (See Section 7, Storage).

F. Check tire pressure. Front tires should be 22 to 25 psi and rear tires 10 psi.

G. Check lubrication. (See Section 6, Maintenance.)

H. Adjust mower front-to-rear pitch as follows:

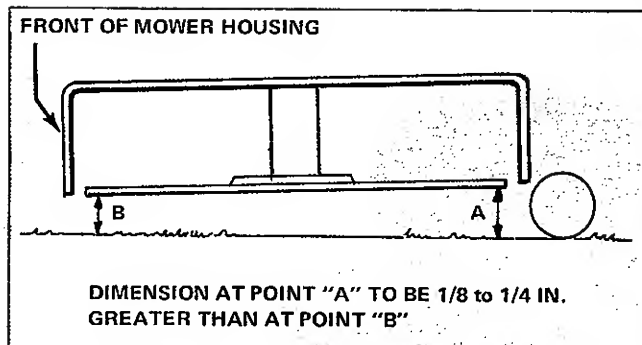


Figure 3-5. Cutting Height Measurement

NOTE

This adjustment is not necessary to perform for each start-up, merely a check of blade tip-to-ground distance is necessary and adjustments made accordingly.

1. Move mower to a flat, smooth surface.

CAUTION

Be sure engine is not running, transmission is in neutral and mower drive is disengaged (clutch lever up). Block the wheels, front and rear, to prevent rolling while working on the mower blade.

2. Position blade tips pointing front to rear.

3. Measure distance from blade tips to ground. Dimension at point "A" must be level to 1/8" higher or 1/8" lower than at point "B" (Figure 3-5).

4. To obtain the above blade setting, remove the eyebolts from both sides of the bracket (Figure 3-6) loosen locknut and adjust turnbuckle until the blade obtains the desired setting. Tighten locknut and secure eyebolt on bracket.

I. Familiarize yourself with starting and stopping (Par. 3-2) and operation (Par. 3-3) procedures.

3-2 STARTING AND STOPPING

A. Place controls (Figures 3-2 and 3-3) in following positions:

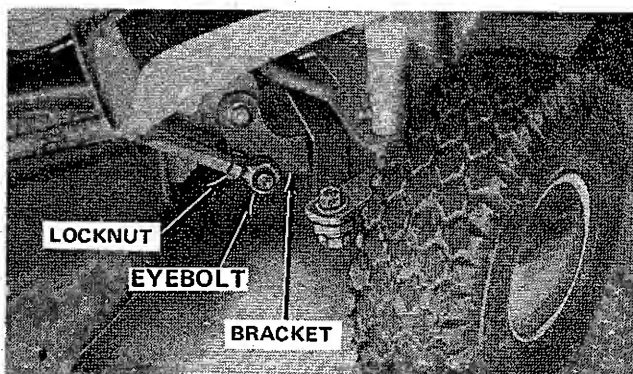


Figure 3-6. Mower Front-To-Rear Pitch Adjustment

1. Throttle lever completely forward. (Figure 3-8).
2. Gear Shift Lever-NEUTRAL (Figure 3-9).
3. Direction Control Lever-NEUTRAL (Figure 3-10).
4. Mower Clutch Lever-Disengaged, lever up (Figure 5-2).

5. Turn ignition key to "On" position.

NOTE

If gear shift lever not in NEUTRAL or mower clutch lever engaged (lever down), engine will crank but not start.

B. Electric

1. Locate ignition switch under right side of drivers seat.
2. Insert ignition key and turn clockwise until starter actuates.

3. When engine starts, release key and move throttle lever slightly rearward so engine is no longer choked.

4. To stop engine, turn ignition key counter-clockwise until vertical and remove key to prevent unauthorized starting.

C. Manual

NOTE

Use the following procedures on electric start models, should the electric start fail to function.

1. Grasp recoil starter handle firmly and pull sharply straight out.

CAUTION

Do not release starter handle with rope extended. Return rope to cover by hand.

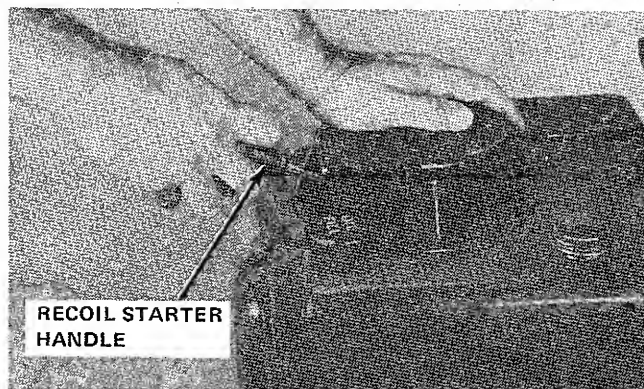


Figure 3-7. Manual Starting

2. If engine fails to start after 4 or 5 pulls, it may be flooded, the choke may not be set properly. If flooding is suspected, move throttle lever rearward and attempt starting again.

3. When engine starts, move throttle lever slightly rearward so engine is no longer choked.

4. To stop engine, turn ignition key to OFF position.

3-3 VEHICLE OPERATION

A. Seat yourself on mower and move throttle lever forward to give full engine speed.

B. Depress the clutch-brake pedal. This disengages the transmission for shifting and applies the brake at the same time.

C. Have the front wheels centered straight ahead and hold the steering wheel with one hand. Move the gear shift lever to HI or LO as desired. (Figure 3-9.) Remember to push downward for HIGH gear or lift upward for LOW gear on the shift lever.

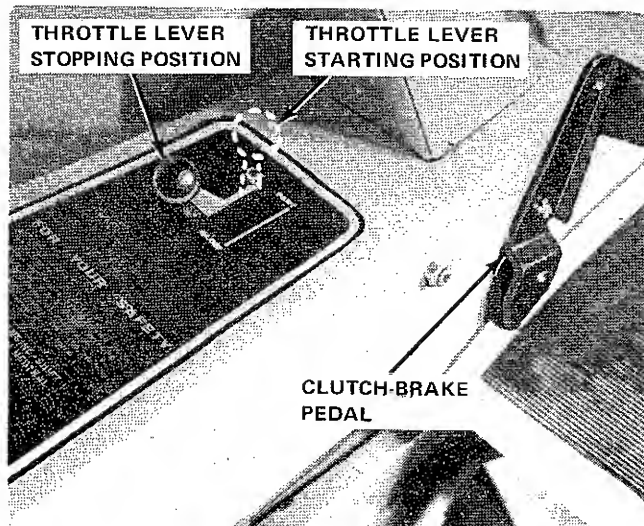


Figure 3-8. Throttle Lever Positioning and Clutch Brake Pedal

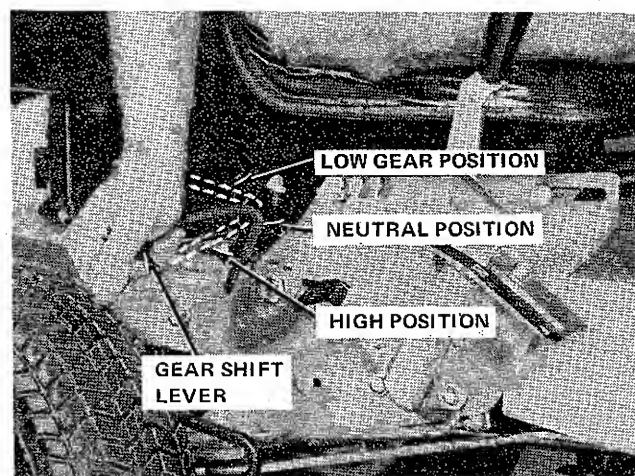


Figure 3-9. Gear Shift Lever Positioning

CAUTION

Change gears only when machine is motionless, lever is in NEUTRAL, and foot pedal is depressed.

D. Release brake and clutch pedal (Figure 3-8).

E. Slowly move direction control lever forward until vehicle begins moving (Figure 3-10). Continue lever movement until it is locked in FORWARD position. Vehicle should now be moving.

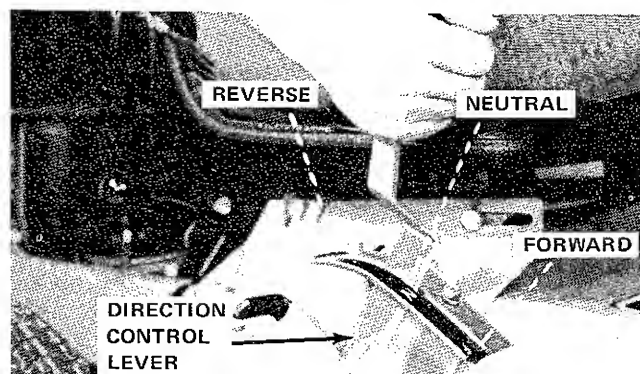


Figure 3-10. Direction Control Lever Positioning

F. Drive on level ground until you get the "feel" of machine. To stop forward or rearward motion, place direction control lever in NEUTRAL or depress clutch and brake pedal. Try slower throttle settings, shift gears, practice steering and handling in forward and reverse until you are ready to start mowing.

H. To stop, depress clutch and brake pedal and put gear shift and direction control lever in NEUTRAL. Move throttle lever back to SLOW. Turn ignition key to "Off" position.

3-4 VEHICLE-MOWER OPERATION

A. Check mower cutting height and adjust accordingly. (See Section 5, Adjustments.)

B. Start Engine, (Par. 3-2). Set throttle lever at 3/4 to full speed.

C. Engage mower by pushing mower clutch lever down.

D. Operate vehicle with mower referring to Par. 3-3 and the following.

E. For the first use of the mower, choose a smooth, level area. Cut long, straight strips overlapping slightly. After getting used to the operation, proceed to inclines or rough ground.

F. Guide the right side of the mower along trees, posts or other obstacles and follow the contour as closely as possible.

G. DISPERSAL: If the clippings are to remain on the lawn, mow with the discharge side toward the area already cut. If the clippings will be raked up later and the grass is at a normal height of 3 inches or less, it is practical to disperse the clippings into the un-cut area. There they will be concentrated in the center of the lawn for minimum raking.

H. WET, THICK OR HEAVY GRASS: Start at the outer edge of the area and mow counterclockwise so that clippings are always deposited on cut grass. Less engine power is required and a more even cut free of streaks will result.

I. HEIGHT SETTING: On thick or springy grass, do not set the cutting height too low. The wheels may sink

into the lawn, resulting in too short a cut. (See Section 5, Adjustments.)

J. For best appearance, new grass should be cut in the afternoon or evening when it is free of moisture.

K. Change patterns occasionally to eliminate matting, graining and a corrugated appearance. See diagram on Figure 3-11. To collect lawn clippings, a vacuum collector is available from your Simplicity dealer.

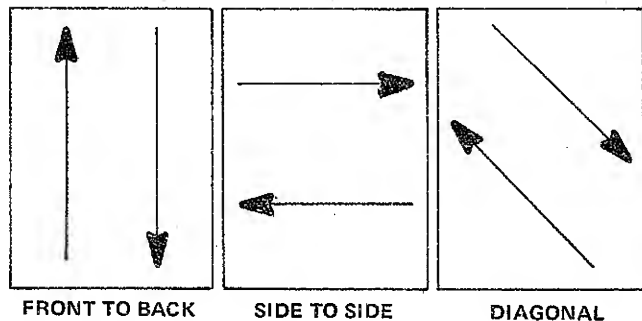


Figure 3-11. Mowing Patterns

CAUTION

If you feel severe vibration when mowing, the blade is unbalanced. Have it balanced before further use. (See Section 6, Maintenance.)

SECTION 4. TROUBLESHOOTING

4-1 TROUBLESHOOTING

If a specific problem and remedy is not covered herein, proceed to isolate the system in which the problem occurs

and then locate the defective part. The greater the number of symptoms of problems, the easier the remedy will be.

| PROBLEM | PROBABLE CAUSE | REMEDY |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine fails to crank | Defective battery. Defective ignition system. | Charge, then replace if not hold charge. Refer to servicing dealer. |
| Engine cranks but fails to start. | Throttle lever not completely forward. Gear shift lever in HI or LO. Mower clutch lever down in engaged position. Spark plug cable disconnected. No gasoline at carburetor. Interlock wires (green) cut. Interlock switch broke. | Push lever forward. Move lever to NEUTRAL. Move mower clutch lever up to disengaged position. Connect spark plug cable. Clean fuel lines and vent holes. Check fuel level Replace module. Replace switch. |

| PROBLEM | PROBABLE CAUSE | REMEDY |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Belt slippage. | Belts excessively worn. Pulleys greasy or oily. Broken or worn belt tension spring. Belt not adjusted properly. | Replace belts. Clean pulleys. Replace spring. Adjust (Section 5). |
| Drive belts jump pulley. | Too much belt slack. Belt stops out of position. | Tighten belt (Section 5). Position stops (Section 5). |
| Belt breaks. | Sharp edges and rough spots on pulleys. Pulleys misaligned. Belt tension too tight. Old belt. | File sharp edges or replace pulley if excessively damaged. Remove pulley and check alignment. Relieve tension. Replace. |
| Difficult handling | Controls or drive systems out of adjustment. Tires under-inflated. | Adjust (Section 5). Inflate front tires 22-25 psi. Rear tires 10 psi. |
| Wheels spinning on slopes. | Wet grass. Surface too steep. | Allow grass to dry sufficiently. Add wheel weights for added traction. |
| Uneven cut. | Mower not adjusted properly. Mower housing bent or damaged. Blade arbor tube bent. | Adjust (Section 5). Repair or replace if excessively damaged. Straighten or replace if unusually bent. |
| Poor or rough cut. | Mower not leveled. Blade dull. Grass too high or gone to seed. Drive belt slipping. Mower not adjusted properly. Engine speed too low. | Level mower (Section 5). Sharpen blade. Use sickle. Tighten belt by adjusting mower clutch lever (Section 5). Adjust (Section 5). Run at 3/4 to full throttle. |
| Vibrations | Arbor shaft or tube (or both) bent. Blade unbalanced. Drive pulley damaged or misaligned | Straighten or replace. Replace blade. Replace damaged pulley. Realign as required. |

| PROBLEM | PROBABLE CAUSE | REMEDY |
|------------------------------|-----------------------------------|---------------------------------------------------------------------------------|
| Excessive play in steering. | Loose capscrews or worn bushings. | Tighten attaching hardware. Install kit 103326, Steering Mechanism (Section 5). |
| Loss of REVERSE drive power. | Drive linkage out of adjustment. | Refer to Section 5-6. |

SECTION 5. ADJUSTMENTS

NOTE

If vehicle is placed on end for over a 2 hour period, the battery must be removed and the fuel tank drained.

5-1 CUTTING HEIGHT ADJUSTMENT

A. Raise or lower entire mower by twisting height adjustment handle (Figure 5-1) until front of blade is at desired cutting height. Clockwise to raise blade and counter-clockwise to lower.

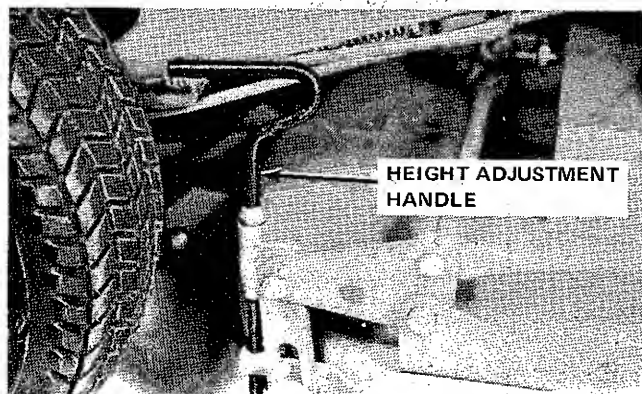


Figure 5-1. Cutting Height Adjustment

B. Most lawns should be mowed to keep the height of the grass approximately 2-inches high. Under dry conditions, it should be allowed to grow higher. To keep a green lawn, NEVER mow more than one-third off the height of the grass or a maximum of 1-inch in one mowing. For extremely tall grass, set the cutting height at MAXIMUM for the first mowing, then reset to the desired height and mow again.

C. The 30-inch mower is designed to cut grass at a height of 1-1/2 to 3-1/2-inches. Best results are obtained by cutting often and not too short. Allow the grass to grow to 3-inches then cut off only the top 1-inch.

5-2 MOWER CLUTCH LEVER

NOTE

Adjustment of mower clutch lever is to be made after mower attached to vehicle.

A. When mower clutch lever is engaged (lever down), there should be approximately 3/4-inch clearance between clutch rod set collar and upper leg of rod bracket (Figure 5-2). If adjustment is necessary, loosen collar setscrew, and adjust accordingly.

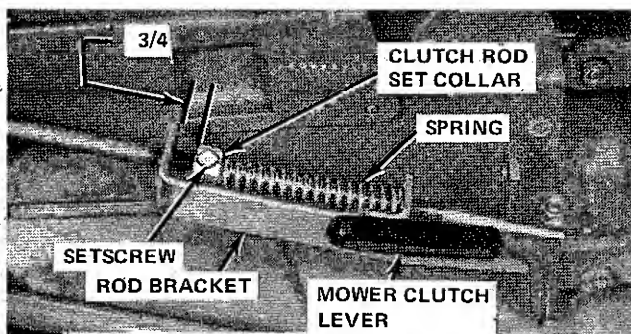


Figure 5-2. Mower Clutch Lever Adjustment

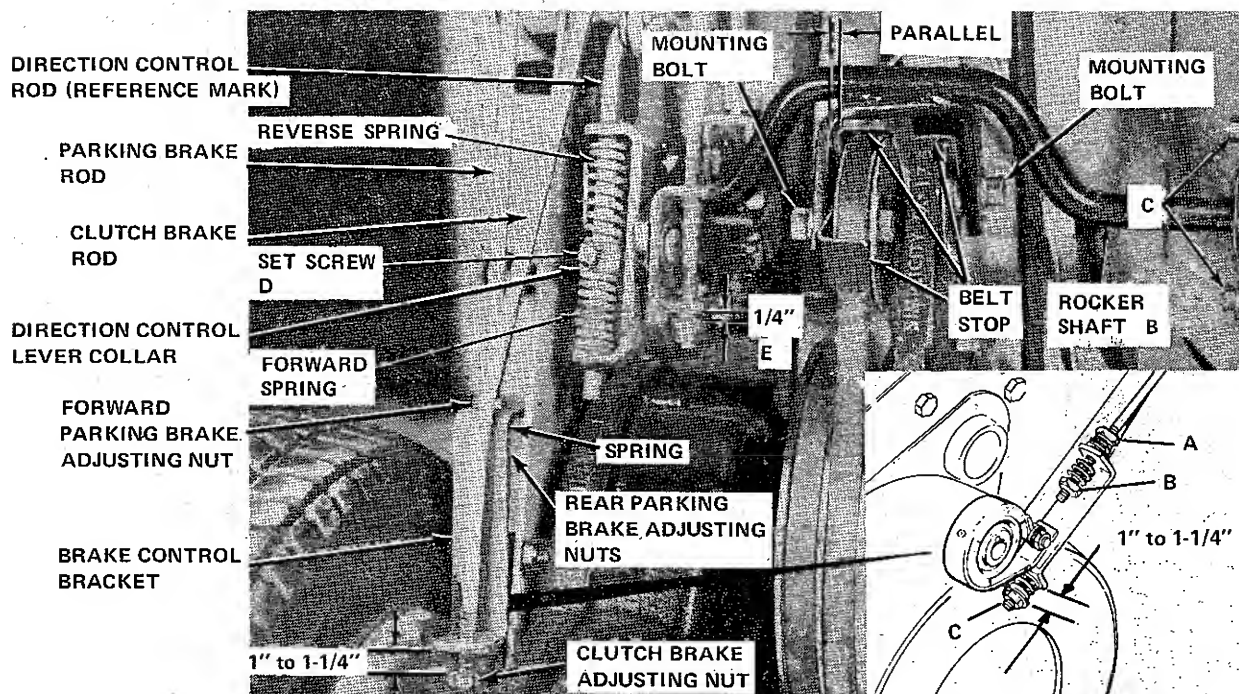
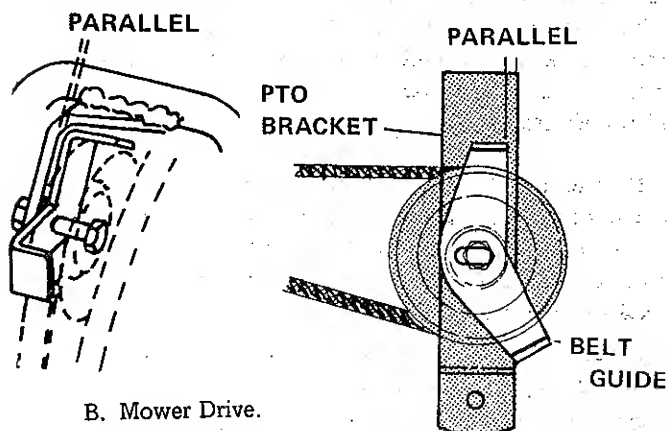


Figure 5-4. Brake and Direction Control Lever Adjustments

5-3 BELT STOPS

A. Forward and Reverse Idler.

Belt guides should be installed in such a fashion that the indicated edges of the guide and mounting bracket are parallel. Refer to illustration and figure 5-4.



Belt guides should be installed in such a fashion that the indicated edges of the guide and mounting bracket are parallel. Refer to illustration and figure 6-11.

C. Check to insure that the belt guide (See Figure 6-11) is all the way to the rear. (The belt guide is slotted for ease of belt removal, and when installed on the unit it should be pushed all the way to the rear of the tractor). The guide should be checked to insure the straight edge of the guide is parallel to the PTO bracket.

5-4 BRAKING

NOTE

Clutching and braking functions are made si-

multaneously as the clutch pedal, on the right front side of the vehicle is depressed.

A. The clutch brake rod (Figure 5-4) moves forward, as the pedal is depressed, and engages a clutch brake control bracket, which pulls upon a brake band and activates the brake. The distance from a clutch brake adjusting nut at the end of the clutch brake rod to the bracket allows for free clutch pedal travel. This adjustment should tighten brake band on drum when clutch pedal is depressed two-thirds of its total travel. If band does not tighten sufficiently, readjust adjusting nut accordingly.

1. Turn the nut (A), until it is to the end of the threaded portion of the rod.

2. Engage the parking brake lever and tighten the nut (B), until the spring is collapsed.

3. With the parking brake lever engaged, adjust the nut (C), to give 1" to 1-1/4" between the flat washer and brake band frame.

B. The opposite end of the brake control bracket is secured to a parking brake rod (Figure 5-4) that is controlled by a parking brake lever on the right side of the vehicle, below the operator's seat. When the brake lever is pushed downward, the rod and control bracket move forward, tightening the brake band. The parking brake adjusting nuts must be adjusted on the brake control bracket so that the spring is compressed solid when the brake lever is engaged.

5-5 CLUTCHING OPERATION

A. Clutching occurs whenever belt tension is released on the idler belts.

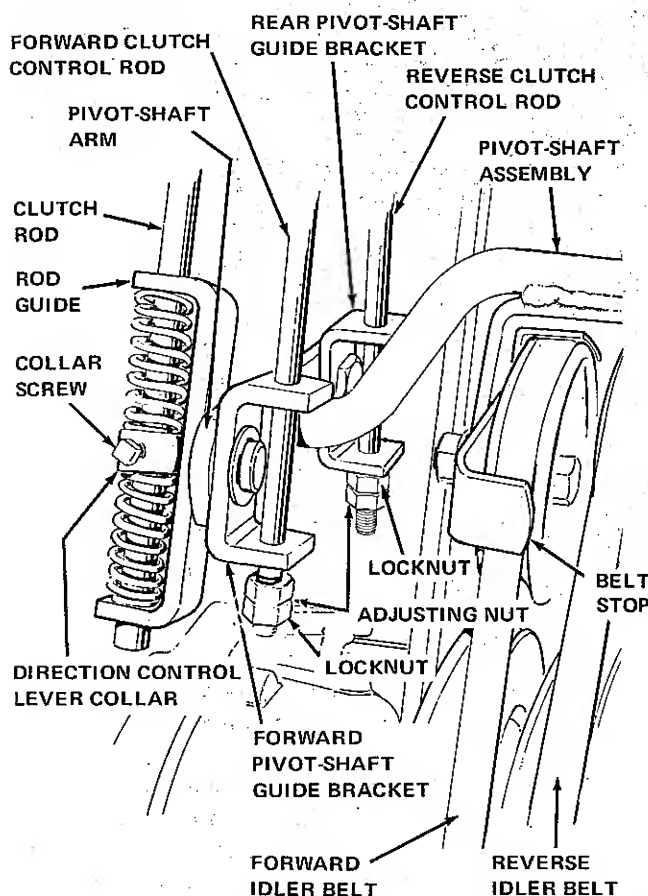


Figure 5-5. Direction Control Lever Neutral, Clutch Pedal Relaxed

Tension is made when the pivot-shaft arm is pivoted in either a forward or reverse direction by the direction control lever on the right side of the vehicle below the operator's seat. The pivoting compresses a control rod spring on an adjusting nut on either the forward or reverse clutch control rod and releases the rod spring of the remaining control rod.

B. Belt stop contact is broken when either the direction control lever is placed in NEUTRAL or the clutch-brake pedal is depressed. Clutch-brake pedal depression moves the branched clutch control rods forward. The forward mo-

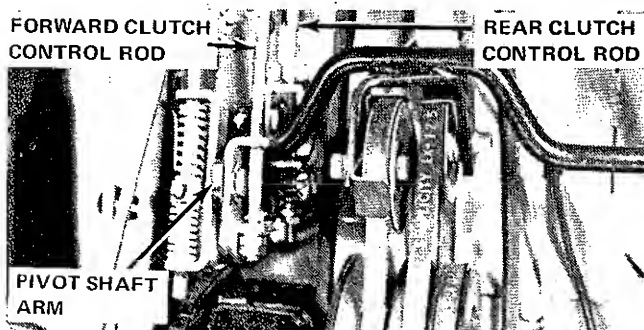


Figure 5-6. Direction Control Lever Forward, Clutch Pedal Depressed

tion pivots the pivot-shaft arm in the direction of the relaxed control rod spring (Figure 5-6). The pivot-shaft arm is then in the NEUTRAL position and there is no belt stop contact.

5-6 CLUTCHING ADJUSTMENTS

The following procedure is to be followed to obtain sufficient forward and reverse idler belt tension. The procedure should be as follows:

A. Item D, loosen the set screw on the set collar so the set collar is free to move. If there has been any indication of loss of reverse in the unit, at this time completely disassemble the spring/rod guide assembly and substitute the 177365 spring provided in the 103326 kit in place of the existing reverse spring (this is the top spring, if the unit is sitting upright) before proceeding with the following adjustments.

B. Applying approximately 5 lbs. of pressure, rotate the rocker shaft as far forward as possible (away from you) and place a reference mark on the rod as indicated. Noting the reference mark, rotate the rocker shaft, using approximately 5 lbs. of pressure, to the full reverse position (out towards you). There should be $11/16$ " of travel between the two positions.

C. Item C. If this dimension is not obtained, loosen the four capscrews which hold the rocker shaft in place and adjust the rocker shaft up or down as necessary to obtain the $11/16$ " dimension (lower the shaft towards the rear of the tractor for a larger dimension and vice versa for a smaller). Once the $11/16$ " is obtained, secure the four capscrews using 15 ft. lbs. of torque.

D. Item D. Again rotate the rocker shaft front to back and using your reference mark, determine the half way position on the rod. This should be $11/32$ " from one extreme position, front or back. Once the rod is in the mid-way position, tighten the set screw on the set collar.

E. Item E. Place the shuttle control lever in the full forward position, and pull the rocker shaft towards you. Now adjust the two jam nuts to give $1/4$ " clearance between the rod guide and the first jam nut. Repeat the process for reverse; handle in reverse, push on the rocker shaft, the jam nuts and rod guide for reverse is the second assembly located directly behind the forward assembly.

F. Item F. Make sure the inside edge of the belt finger is parallel to the outer edge of the rocker shaft assembly. This holds true for both belt fingers.

5-7 TRANSMISSION DRIVE BELT

Turn outer adjusting nut (Figure 5-7) so that the spring distance between the flat washer and the idler bracket is $1-1/8$ ". Turn the elastic stop nut to the rear of the tractor

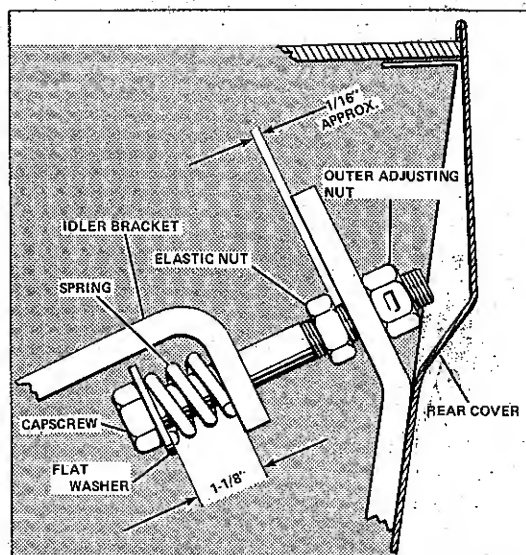


Figure 5-7. Transmission drive belt adjustment.

until it strikes the tractor frame. In some cases it may be necessary to cut 1/4" from the rear of the capscrew after making the preceding adjustment in order to properly close the rear door on the unit. This adjustment should be rechecked after the unit is run.

5-8 STEERING MECHANISM

NOTE

If excess play in steering mechanism is noted install kit 103326 as follows:

1. Remove the mower and stand the tractor in an upright position for easy access in making the following adjustment. (Be sure the gas tank is less than 1/2" full before tipping the tractor upright).

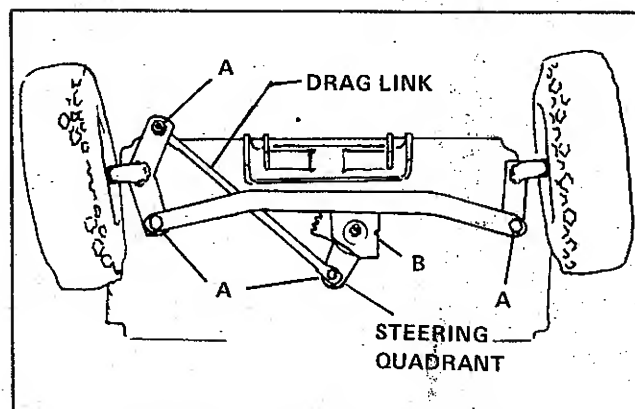


Figure 5-8. Steering Adjustment Points

2. Check to insure the steering wheel is securely attached to the steering post.

3. Check the three capscrews at the bottom of the steering column for tightness. (Torque to 20 ft. lbs.).

4. See Figure 5-8, Item A. Remove the drag link from the unit, and remove the two brass bushings from the drag link. Install the two 154177 bushings supplied in the 103326 kit in place of the brass bushings removed. Reassemble the drag link assembly and torque all items indicated with an "A" to 30 ft. lbs.

5. See Figure 5-8, Item B. Loosen the steering quadrant from the tractor. Remove the two washers, lock screw and flange nut while doing this. Now reinstall the quadrant using the 178489 washer, 178490 washer, 715182 lock screw and 718073 flange nut supplied in the 103326 kit in place of the items previously removed. Torque this assembly to 60 ft. lbs.

SECTION 6. MAINTENANCE

6-1 MAINTENANCE

A. Crankcase Oil.

1. Check the crankcase oil level (Figure 3-4) when fuel is added or every five operating hours. Change oil every 20 operating hours using 2-1/4 pints of SD/CC, MS, MS/DG, or MS/DM 10W-30 grade motor oil.

NOTE

Pay attention to "Service Designation" stamped on the top of each can of oil you intend using in your engine. Use oil labeled MS (Motor Severe), but do not use ML or MM labels as they do not contain sufficient additives for proper protection. Labels DL and DM may be used

also; however, DO NOT use a DS label oil as it is too severe in detergent quality for this application. Be sure to use a premium grade oil.



Figure 6-1. Oil Drain Plug

2. Crankcase oil should be drained when engine is warm. Place suitable container under oil drain plug and remove plug (Figure 6-1). Allow oil to drain completely, then replace drain plug. Fill crankcase through cap and gauge hole (Figure 3-4).

B. Grease and oiling points.

1. Grease wheel fittings, control lever and quadrant, and frame pivot washers every 10 operating hours with lithium-based No. 2 automotive grease. Remove all

dirt, grit and paint from fittings before application. Apply Blend No. 4E grease to brake and clutch rod guide. Make sure grease is distributed internally into rod guide.

2. Apply light engine oil every 10 operating hours to all points specified in Figures 6-2, 6-3, and 6-4 except tie rod and draglink pivots. Apply 10W-30 or heavier motor oil to tie rod and draglink pivots (Figure 6-4).

3. Use the following illustrations as a guide to greasing and oiling.

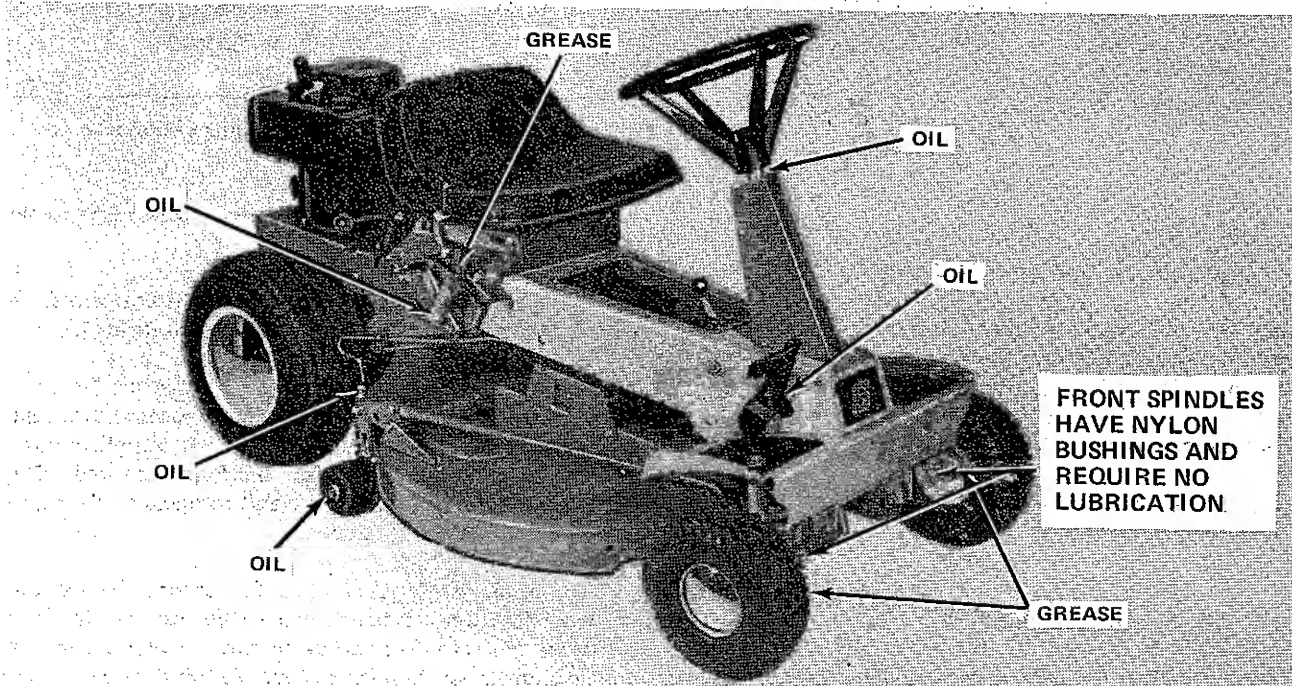


Figure 6-2. Right Side Lubrication Points

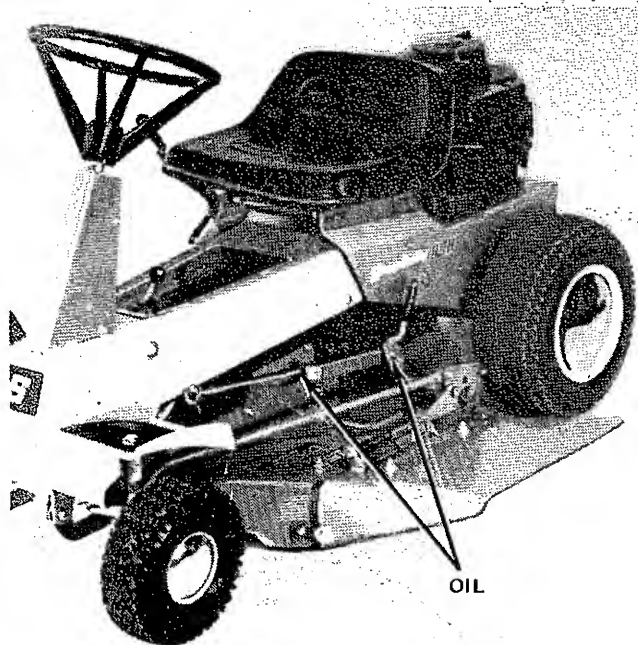


Figure 6-3. Left Side Lubrication Points

C. Transmission Oil.

1. Check transmission oil every 10 hours of operation. Transmission oil can be checked with the vehicle on all four wheels or standing upright on its rear.

To check level when vehicle on all four wheels, remove fill and drain plug (Figure 6-12). To check level when vehicle upright, remove fill and drain plug (Figure 6-4).

CAUTION

If vehicle placed in upright position longer than two hours, remove battery from vehicle to avoid leakage.

2. Operate vehicle for 1/2 hour to warm transmission oil before draining. Remove lower plug, allowing oil to drain into a suitable container.

3. To add transmission fluid, install lower plug and add 2 1/2 pints of Amerex 90 gear oil through top plug opening.

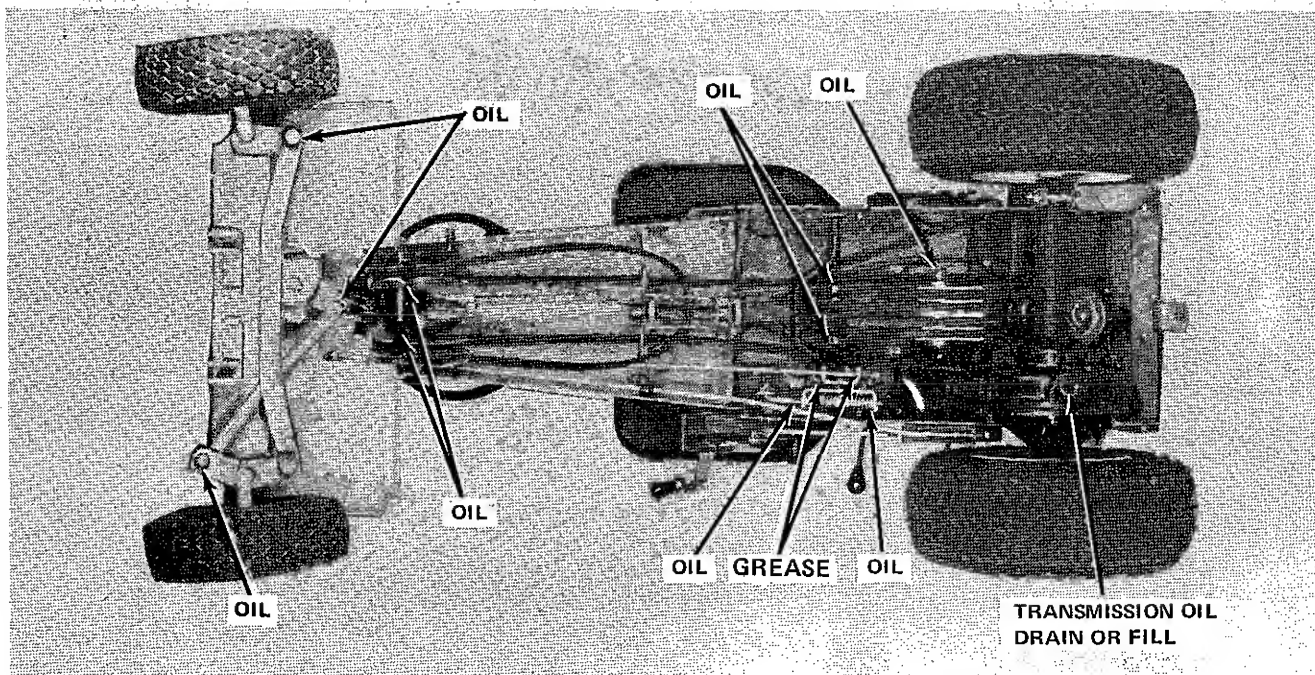


Figure 6-4. Bottom Lubrication Points

6-2 ENGINE COMPONENT CLEANING

A. Air Cleaner.

1. Service air cleaner every 20 operating hours or, if operating under extremely dusty conditions, 5-10 operating hours.

2. Remove air cleaner cover and wash foam air cleaner element in gasoline, squeezing several times. Allow it to dry thoroughly and saturate it with engine oil. Squeeze several times to remove excess oil and reinstall.

B. Spark Plug.

Clean and regap spark plug every 100 operating hours. Do not clean plug by sandblasting as this process leaves a residue of grit in the plug, which can cause engine damage. Clean the plug with solvents, scraping or using a wire brush. Gap to 0.030 of an inch. Discard plug if cannot clean adequately or if plug is old and worn.

NOTE

Briggs and Stratton Corp. will not honor the warranty on any engine damaged by grit from a sandblasted spark plug.

C. Cooling Fins.

Clean all clippings, dirt, and chaff from cooling fins on the cylinder and head to prevent damage from overheating.

6-3 MOWER REPAIR

A. Removal.

1. Remove mower from unit by disengaging the mower clutch lever, and also disengaging the mower deck lift lever. (Figure 6-5).

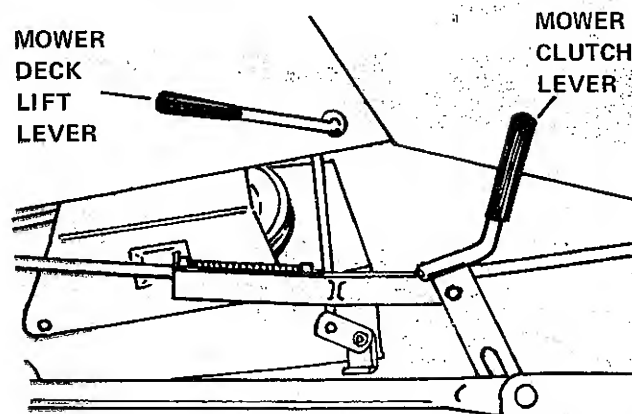


Figure 6-5 Mower Clutch Lever and Deck Lift Lever

2. Remove hairpin clip (Figure 6-6) from mower idler pulley bracket and remove adjusting rod from bracket.

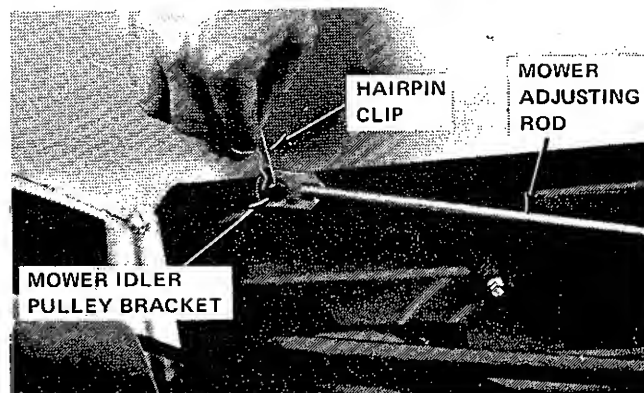


Figure 6-6. Mower Adjusting Rod Attachment

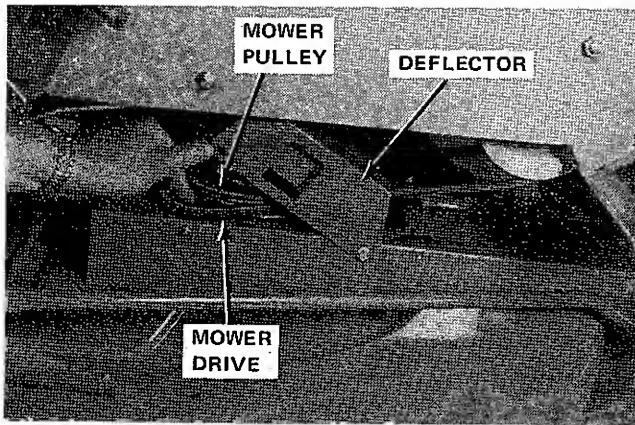


Figure 6-7. Mower Drive Belt and Pulley

3. Lifting deflector, disengage mower drive belt from mower pulley (Figure 6-7). To separate belt from pulley, it may be necessary to move entire mower forward slightly.

4. Supporting front end of mower, remove two hairpin clips and pins attaching front of mower to vehicle. (Figure 6-8). Slowly lower mower and slide it out from under vehicle.

5. Place mower end of drive belt in bracket under frame. (Figure 6-4).

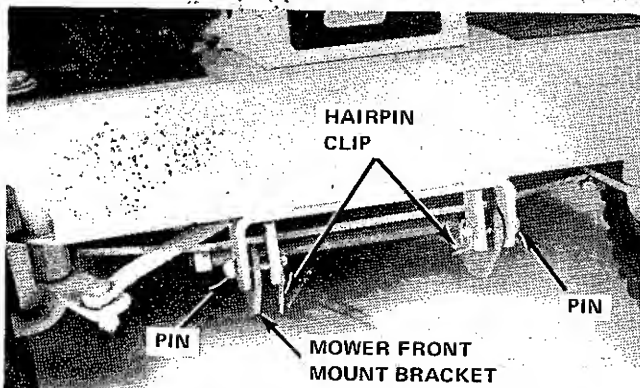


Figure 6-8. Mower Front Mount Brackets

B. Cleaning and Inspection.

1. Clean all grass clippings and material from housing. Clean blade and arbor.

2. Rotate blade by hand to see if ends are level with each other. Inspect blade for nicks or grooves.

3. Inspect drive belt for wear or age.

C. Repair.

1. Remove small nicks from blade with file or stone. Do not file excessively or blade will require rebalancing. Deep nicks in blade cutting edge will require

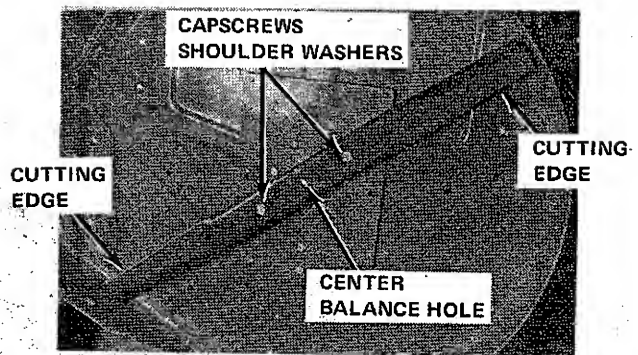


Figure 6-9. Mower Blade

grinding and subsequent rebalancing (See Blade Replacement for blade removal procedures).

2. Securely tighten all mower and guard attaching parts.

D. Blade Replacement.

1. Using several layers of folded cloth or a leather glove hold one end of blade while removing both capscrews and shoulder washers (Figure 6-9) attaching blade to arbor.

2. To sharpen blade, clamp it in a vise and use a 10 inch file along original bevel. File to a razor edge.

3. To balance blade, insert a knife blade or small rod through center hole (Figure 6-9) and observe if both ends balance evenly. Refile heavy side, if required.

WARNING

ALWAYS HANDLE BLADE WITH CARE TO AVOID INJURY.

4. Using cloth or glove, install blade on mower, cutting edge upward. Tighten blade mounting capscrews to 37-47 ft. lbs. torque.

5. Slowly rotate blade by hand to see if it clears housing and tips are running true.

E. Mower Drive Belt Replacement.

Refer to par. 6-4 for mower drive belt removal and installation, if required.

F. Installation.

1. Move mower under vehicle and, supporting front end of mower, secure it to front end brackets with two pins and hairpin clips (Figure 6-8).

2. Lifting deflector, reinstall mower drive belt on mower pulley. (Figure 6-7). Mower clutch lever must be in disengaged position or to the rear and up (Figure 6-5).

3. Secure adjusting rod to mower idler pulley bracket with hairpin clip (Figure 6-6). Engage mower suspension hook.

G. Adjustments and Operation.

Refer to Section 3 for vehicle-mower operation and Section 5 for mower adjustments.

H. Arbor shaft or Sleeve damage.

If the mower is properly adjusted and in apparent good condition, but seems to require excess engine power, it may be that the arbor shaft or sleeve has been damaged by hitting an obstruction. Check the blade drive system. The rotor spindle (or spindles) should turn with 1 to 2 lbs. pull on the blade with the drive belt removed. If the pull pressure exceeds 2 lbs., the unit is robbing power from the engine. Tight bearings, a bent arbor shaft or spindle housing can be repaired or replaced by your Simplicity dealer. Arbor nut (see mower housing exploded view) must be torqued to 140 foot-pounds.

6-4 BELT REPLACEMENT

NOTE

Refer to Figure 6-10 for location of pulleys and belts.

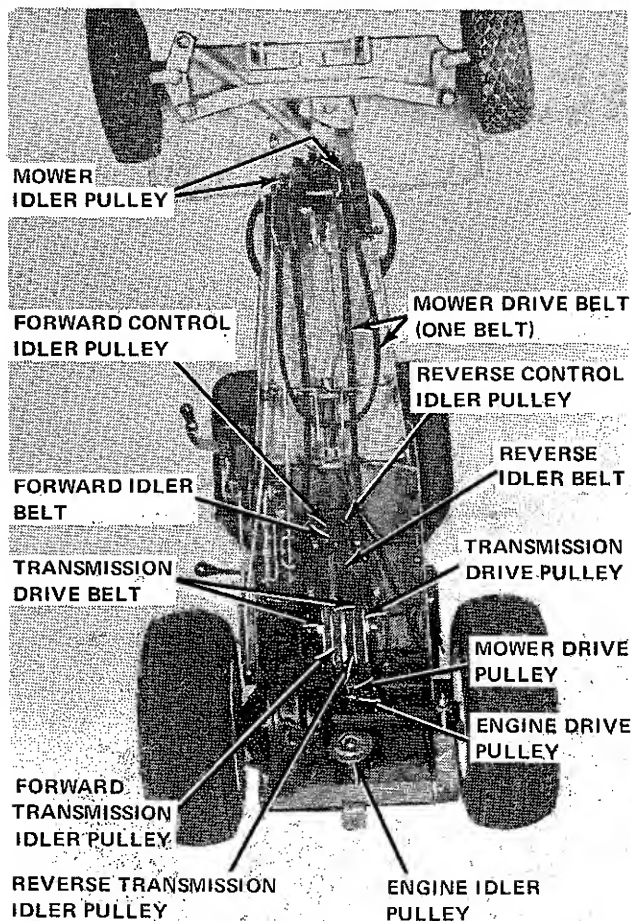


Figure 6-10. Belt and Pulley Location

A. Mower Drive Belt.

1. Remove mower (Par. 6-3).

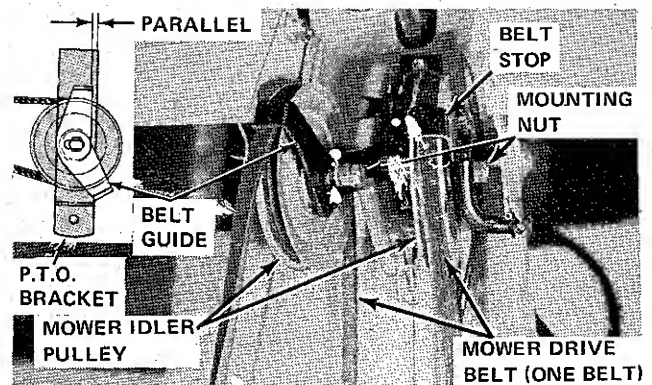


Figure 6-11. Mower Clutch Assembly

2. Loosen belt stop and pulley mounting nuts (Figure 6-11) and position belt stop so that stop fingers allow for belt removal. Remove mower drive belt from mower idler pulleys.

3. Open battery cover at rear of vehicle. Back off the outer adjusting nut (Figure 6-12) far enough that the tension on the engine drive belt is reduced to the point where the belt may be removed from the engine crankshaft pulley. It may be necessary to completely remove the outer adjusting nut to accomplish this.

4. Install new mower drive belt in reverse order of removal. Belt stops must be positioned as outlined in Section 5-3 item B. Adjust mower clutch lever as instructed in Section 5.

B. Transmission Drive Belt.

1. Open battery cover at rear of vehicle (Figure 6-12).

2. Push engine idler pulley (Figure 6-12) in against spring until engine drive belt can be slid from pulley. If spring does not allow sufficient compression to allow belt removal, loosen outer adjusting nut a few turns.

3. Disengage engine drive belt from engine drive pulley (Figure 6-10) and remove from battery cover opening.

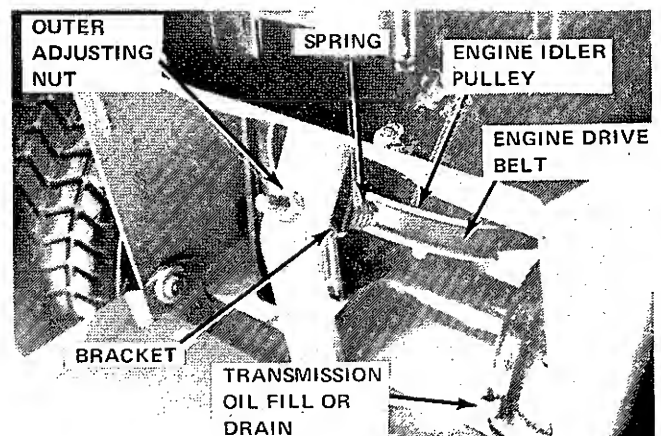


Figure 6-12. Engine Idler Pulley and Drive Belt

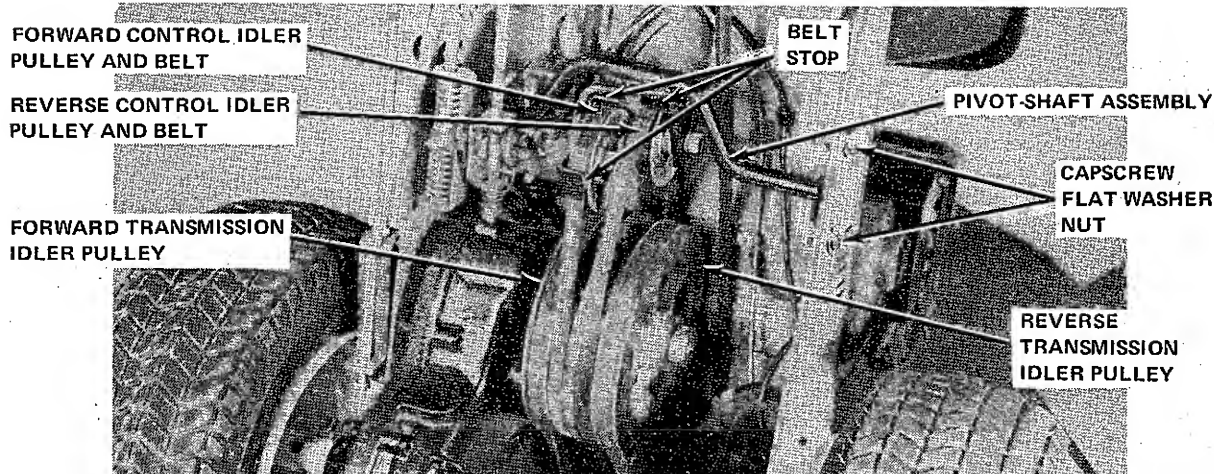


Figure 6-13. Forward and Reverse Idler Belts and Pulleys

NOTE

Engine drive belt is only one belt and it engages transmission drive pulleys in opposite directions. The engine drive pulley is smaller than its neighboring mower drive pulley.

4. Working through battery cover opening, install new transmission drive belt (Figure 6-10) on engine drive pulley. Carefully work belt over outside transmission drive pulleys and depress engine idler pulley (Figure 6-12) enough to slip new engine drive belt in place. Adjust drive belt as instructed in paragraph 5-7 of this manual.

C. Forward and Reverse Idler Belts.

1. Remove transmission drive belt as previously outlined.
2. Loosen belt stop mounting bolts and slide them forward enough to slide either or both idler belts from either or both control idler pulleys.
3. Remove both idler belts from their respective transmission idler pulleys.
4. Install new idler belts in reverse order of removal. Belt stops must be positioned as outlined in section 5-3 item A. Pivot-shaft assembly must be secured sufficiently forward to allow controls to activate either forward or reverse belt. Refer to Section 5 for proper belt tension.

6-5 BATTERY REPLACEMENT

NOTE

A hydrometer test of battery solution should be made monthly or more often in warmer weather. If specific gravity tests 1.225 or less, the battery should be recharged. At the same time the solution level should be checked and distilled water added to retain level as designated on battery. Always add distilled water before recharging. Use charger receptacle next to ignition switch. If battery is to be charged off the vehicle, do not exceed 1.3 amperes charging rate;

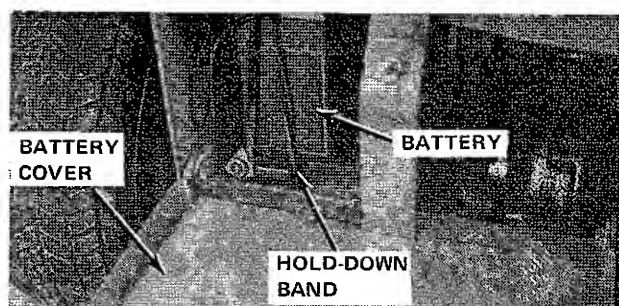


Figure 6-14. Battery Installation

1. Open battery cover in rear of vehicle and remove hold-down band from battery (Figure 6-14).
2. Slide battery from support and remove battery cables from terminals. (Figure 6-15).

WARNING

TO AVOID ACCIDENTAL SPARKS: DISCONNECT NEGATIVE (-) GROUND CABLE FIRST AND CONNECT IT TO BATTERY LAST.

3. Place battery in clean, level location.
4. Install new or recharged battery in reverse order of removal. Position hold-down band securely around battery. If the overflow drain hose is pinched under the battery during installation, move the hose clamp to the right front corner of the battery. Hose must not be blocked and be 1/8-inch from bottom of battery.

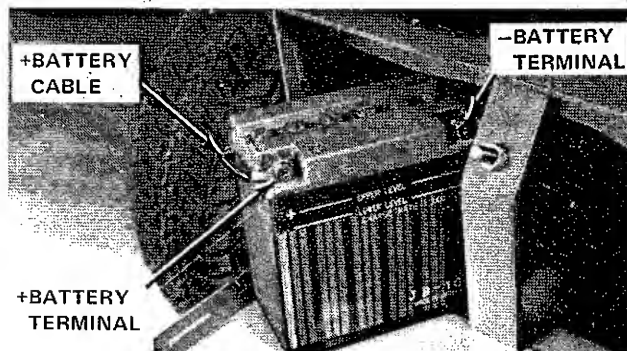


Figure 6-15. Battery Cables and Terminals

SECTION 7. STORAGE

7-1 OFF-SEASON STORAGE

A. Drain the fuel tank completely by running the engine until it stops. If desired, fuel can be stored in containers or in the tank by using STA-BIL brand gasoline stabilizer, available at your Simplicity dealer. Add a can capful to the fuel in the tank or follow the directions on the can for containers of other capacity. This additive prevents formation of gum and varnish for up to one year, providing easier starting and a clean fuel system.

B. Drain and refill crankcase while engine is warm. (See Section 6, Maintenance).

C. Remove spark plug, pour 1 oz. 10W-30 oil into cylinder through plug hole. Crank engine a few times to distribute oil. Reinstall plug.

D. Clean dirt and chaff from cylinder head fins and engine housing.

E. Apply grease to all fittings and light engine oil to all points listed in Section 6, Maintenance.

F. Block the machine up off the wheels to relieve weight and keep tires off a damp floor. Protect the tires from prolonged exposure to direct sunlight.

G. Store the machine in a dry place indoors.

7-2 STARTING AFTER STORAGE

A. Remove the spark plug and wipe it dry. Crank the engine a few times to blow the excess oil out the plug hole, then reinstall the plug.

B. Fill the fuel tank completely with fresh "Regular" gasoline.

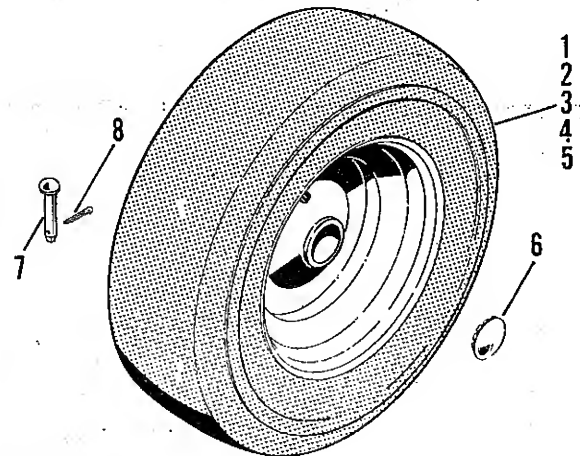
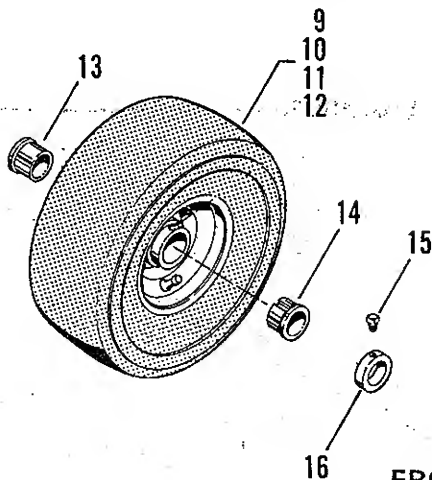
C. Service the air cleaner. (See Section 6, Maintenance.)

D. Check the crankcase oil level and replenish if necessary (Section 6, Maintenance).

E. Start the engine and let it run slowly. DO NOT run at high speed immediately after starting. Run the machine outdoors or in a well-ventilated area.

F. Inflate the tires to proper operating pressure. The front tires should be 22-25 psi and the rear 10 psi.

SECTION 8. ILLUSTRATED PARTS LIST



FRONT & REAR TIRES

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|----------------------------------------------------|
| 1 | 171851 | 2 | Rear Wheel & Tire Assy. (Incl. Ref. Nos. 2 thru 5) |
| 2 | 171850 | 2 | Wheel Assembly |
| 3 | 159156 | 2 | Tire - Tubeless |
| 4 | 153038 | 2 | Tube |
| 5 | 171270 | 2 | Valve Stem-Cap |
| 6 | 158433 | 2 | Plug Button |
| 7 | 118053 | 2 | Pin |
| 8 | 722009 | 2 | Cotter Pin, 1/8" x 3/4" lg. |

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|-------------------------------------------------------|
| 9 | 163106 | 2 | Front Wheel & Tire Assy. (Incl. Ref. Nos. 10 thru 14) |
| 10 | 163107 | 2 | Wheel |
| 11 | 163108 | 2 | Tire |
| 12 | 163109 | 2 | Tube |
| 13 | 163110 | 4 | Bearing |
| 14 | 163111 | 4 | Bearing Relief |
| 15 | 713503 | 2 | Set Screw, 5/16"-18 x 5/16" lg. |
| 16 | 8021010 | 2 | Set Collar |

MFG. NO. 1000 Electric Start

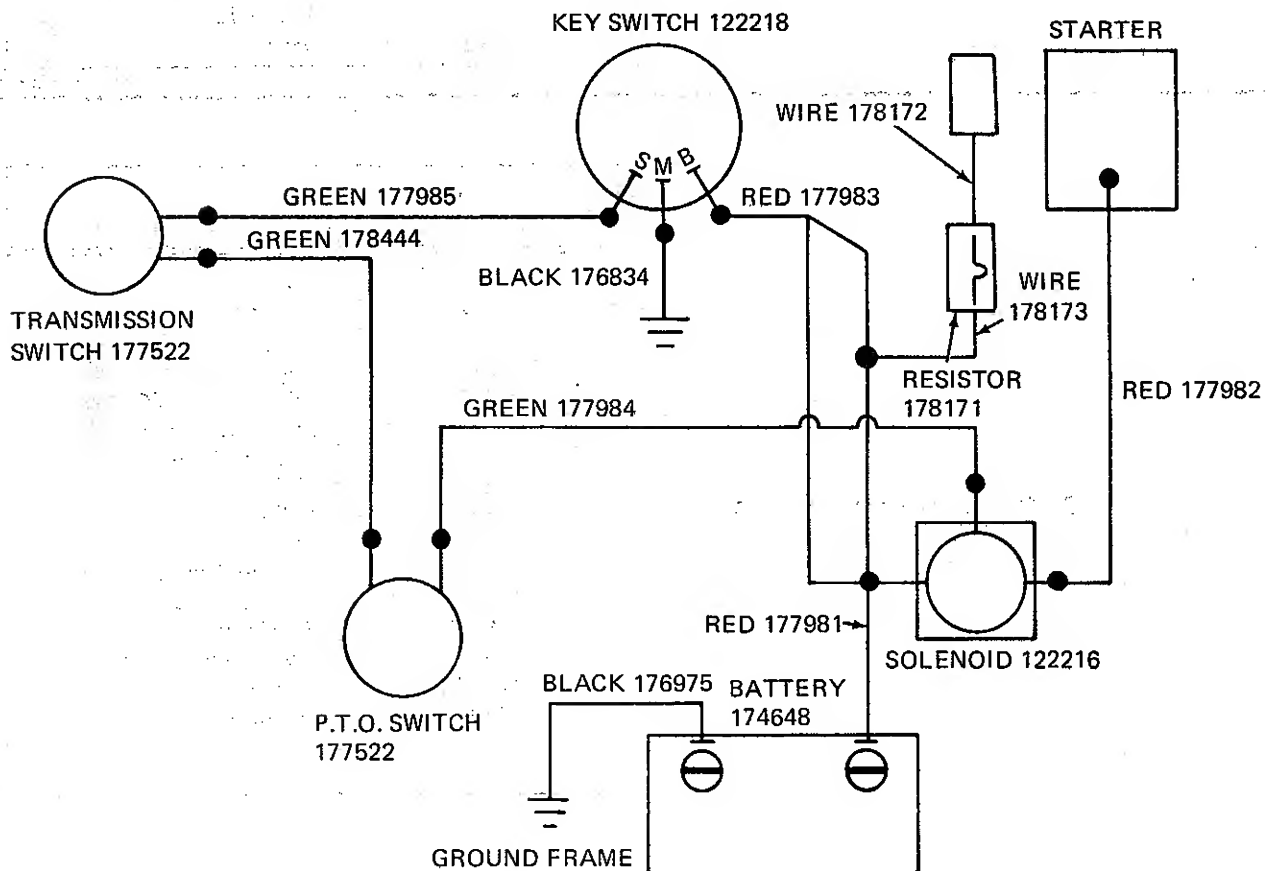
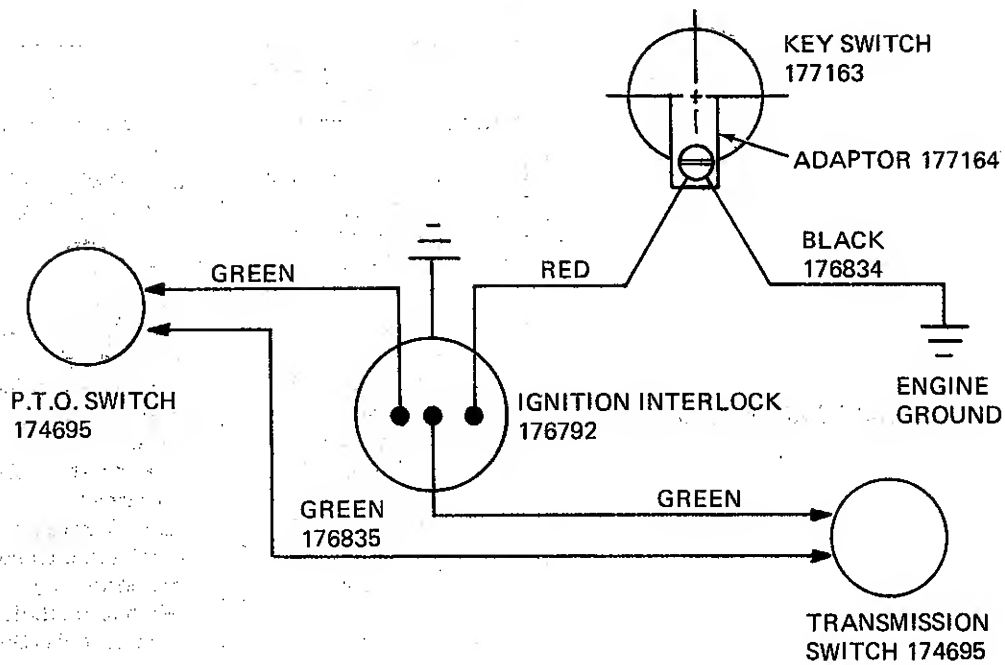
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|--------------------------------------------------|
| 1 | 176623 | 1 | Support Assy. (Battery) |
| 2 | 718009 | 3 | Speed Nut |
| 3 | 714006 | 3 | Self-Tapping Screw 10 x 1/2 |
| 4 | 106786 | 1 | Clamp |
| 5 | 177981 | 1 | Battery Assy. Cable (To Solenoid) |
| 6 | 176975 | 1 | Negative Battery Cable Assy. (To Ground) |
| 7 | 177390 | 1 | Battery and Clip Assy. |
| 8 | 174648 | 1 | Battery |
| 9 | 176912 | 1 | Wire Clip |
| 10 | 177982 | 1 | Solenoid Cable Assy. (To Starter) |
| 11 | 177983 | 1 | Ignition Wire Assy. (Switch to Solenoid) |
| 12 | 177985 | 1 | Trans. Wire Assy. (Switch to Ignition Switch) |
| 13 | 177984 | 1 | Wire Assy. (PTO Switch to Solenoid) |
| 14 | 172410 | 1 | Fuse 7-1/2 Amp. |
| 15 | 178172 | 1 | Wire Assy. |
| 16 | 178173 | 1 | Wire Assy. |
| 17 | 178171 | 1 | Resistor |
| 18* | 715189 | 2 | Screw, Thread Forming |
| 19 | 122216 | 1 | Solenoid |
| 20 | 178444 | 1 | Wire |

* Not Shown

MFG. NO. 998 Manual Start

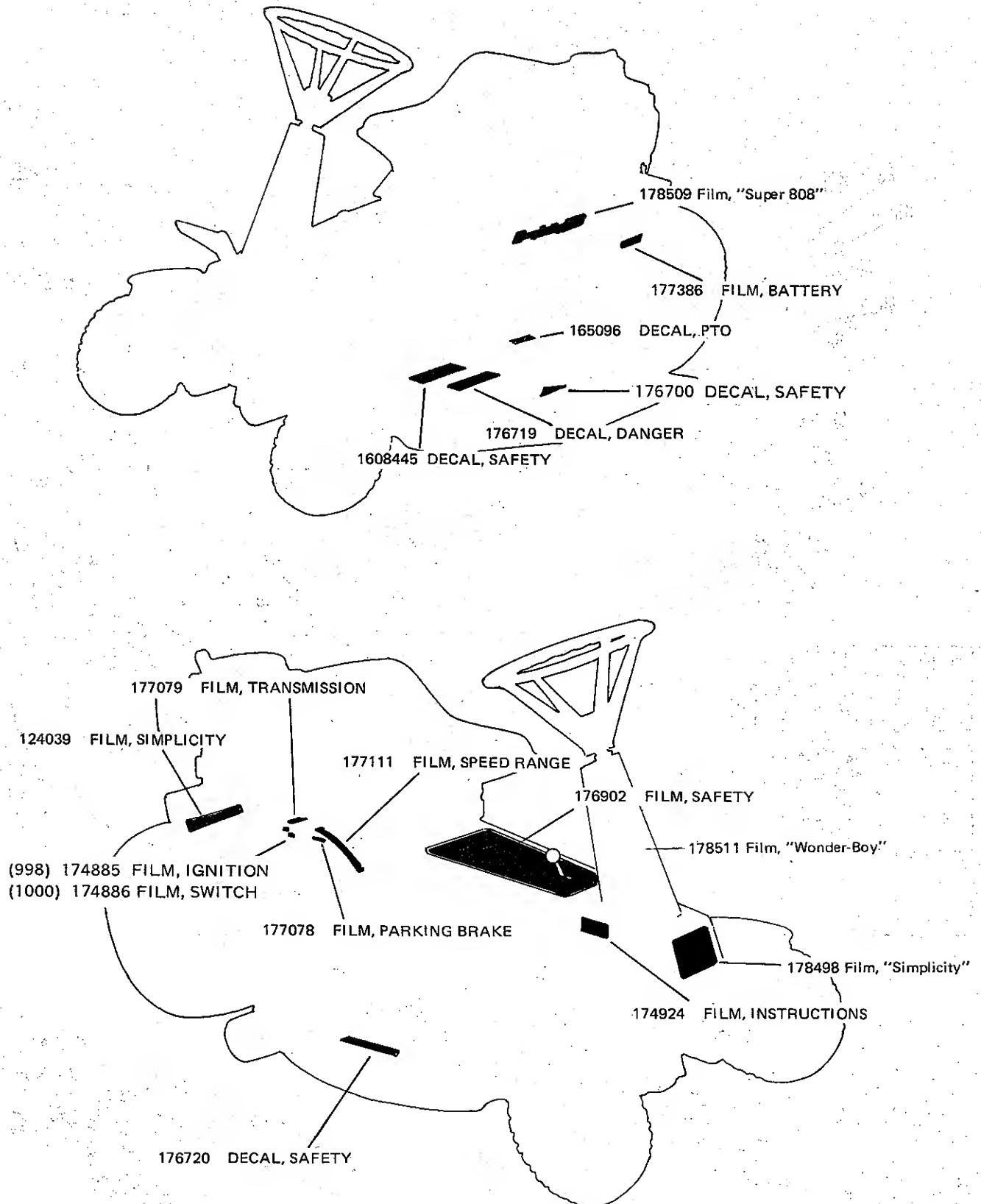
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|-----------------------|
| 1 | 177163 | 1 | Switch |
| 2 | 177164 | 1 | Adaptor |
| 3 | 122203 | 1 | Key & Ring Assy. |
| 4 | 178448 | 1 | Support Switch |
| 5 | 715124 | 2 | Screw, Thread Forming |
| 6 | 178447 | 1 | Ignition Interlock |
| 7 | 715124 | 1 | Screw, Thread Forming |
| 8 | 176834 | 1 | Wire |
| 9 | 178444 | 1 | Wire |
| 10 | 154247 | 1 | Clamp |
| 11 | 715124 | 1 | Screw, Thread Forming |
| 12 | 177522 | 2 | Safety Switch |
| 13 | 718067 | 3 | Nut, Pal |
| 14 | 176883 | 2 | Grommet |
| 15 | 172176 | 2 | Grommet |
| 16 | 176912 | 2 | Clip, Wire |

WIRING DIAGRAM FOR MANUAL START (991000)

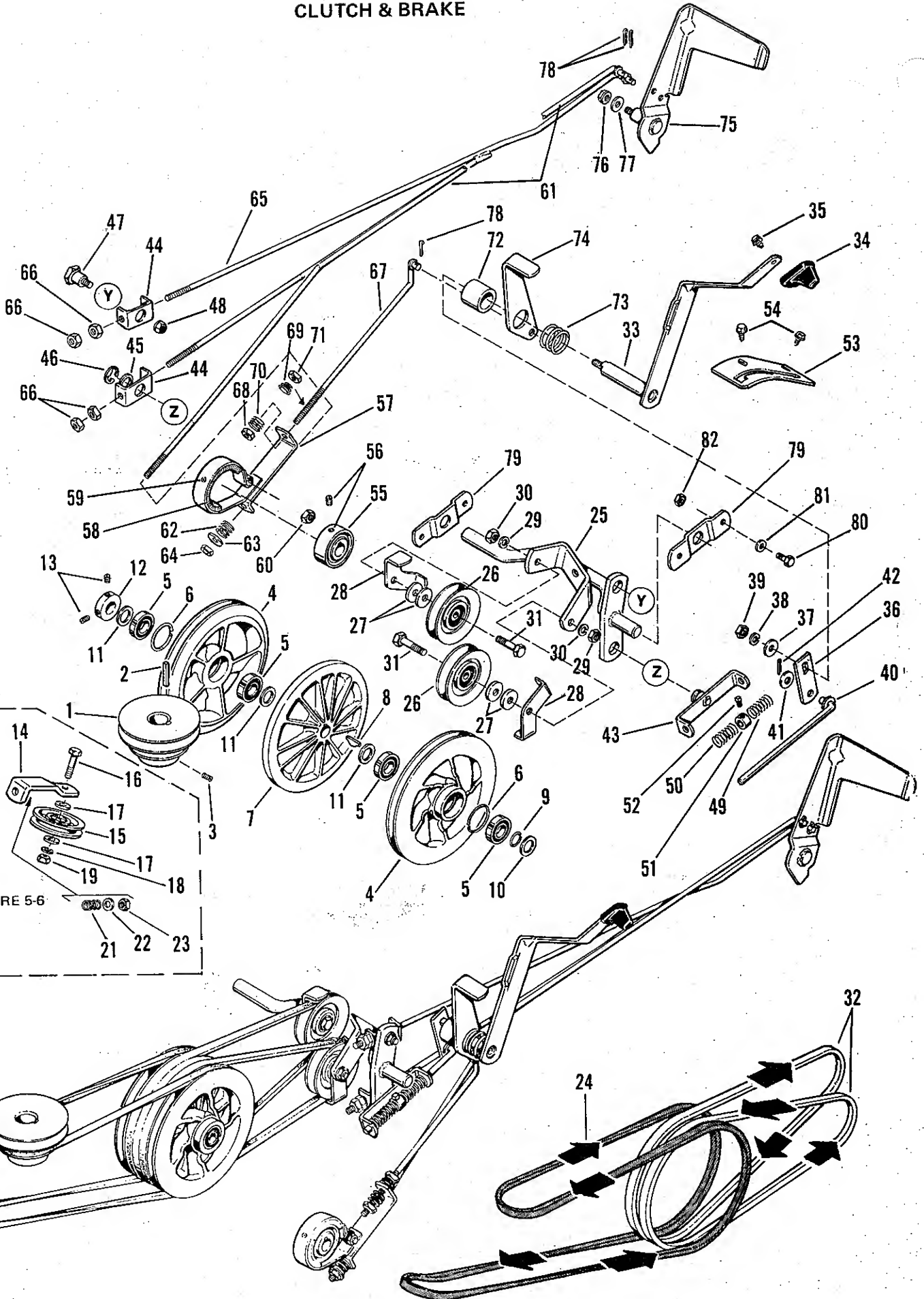


WIRING DIAGRAM FOR ELECTRIC START (990998)

DECALS



CLUTCH & BRAKE



CLUTCH & BRAKE

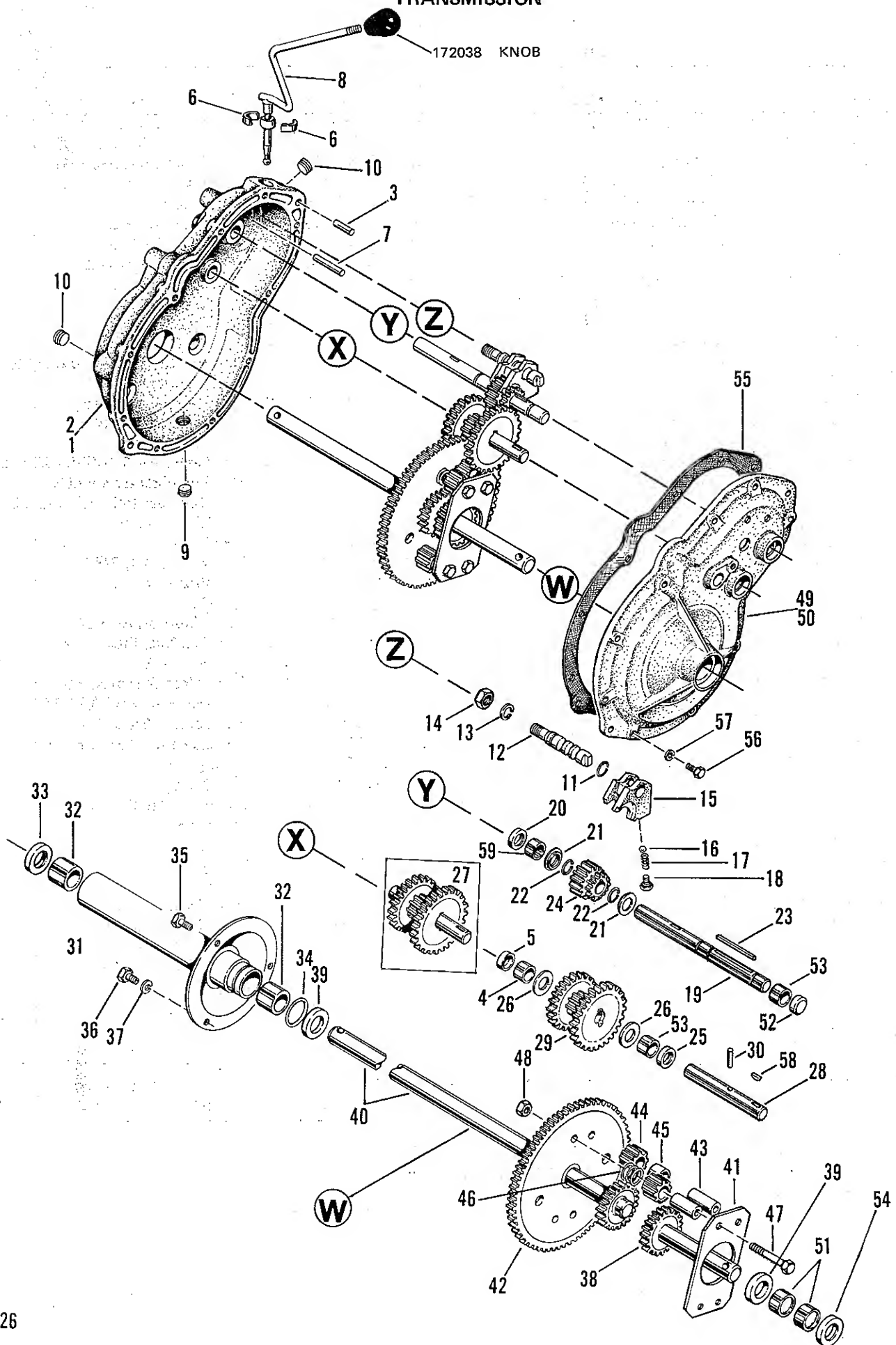
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|--------------------------------------------------------------|
| 1 | 175365 | 1 | Engine Pulley |
| 2 | 159129 | 1 | Key |
| 3 | 713503 | 1 | Set Screw, 5/16"-18 x 5/16" lg. |
| 4 * | 176502 | 2 | Outer Pulley Assembly (Includes 2 Ref. No. 5 & 1 Ref. No. 6) |
| 5 | 175734 | 4 | Bearing |
| 6 | 108051 | 2 | Retaining Ring |
| 7 | 175739 | 1 | Center Disc Clutch |
| 8 | 157332 | 1 | Key |
| 9 | 8061048 | 1 | Retaining Ring |
| 10 | 175271 | 1 | Washer |
| 11 | 121210 | 3 | Washer |
| 12 | 108289 | 1 | Set Collar |
| 13 | 713503 | 2 | Set Screw, 5/16"-18x5/16"lg. |
| 14 | 176493 | 1 | Idler Bracket |
| 15 | 176640 | 1 | Idler Pulley |
| 16 | 715099 | 1 | Hex Capscrew, 3/8"-16 x 1-1/2" lg. |
| 17 | 719002 | 2 | Plain Washer, 5/16" |
| 18 | 720002 | 1 | Lock Washer, 3/8" |
| 19 | 717003 | 1 | Hex Nut, Full, 3/8"-16 |
| 20 | 715184 | 1 | Hex Capscrew, 3/8"-16 x 4"lg. |
| 21 | 177365 | 1 | Spring |
| 22 | 719002 | 1 | Plain Washer, 5/16" |
| 23 | 717504 | 1 | Hex Nut, Elastic Lock, 3/8"-16 |
| 24 | 177452 | 1 | V-Belt |
| 25 | 175950 | 1 | Pivot Bracket |
| 26 | 174561 | 2 | Idler Pulley |
| 27 | 157424 | 4 | Special Washer |
| 28 | 174402 | 2 | Belt Guide |
| 29 | 720002 | 2 | Lock Washer |
| 30 | 717003 | 2 | Hex Nut, Full, 3/8"-16 |
| 31 | 715099 | 2 | Hex Capscrew, 3/8"-16 x 1-1/2" lg. |
| 32 | 175361 | 1 | Matched Belts |
| 33 | 175945 | 1 | Control Lever Assembly |
| 34 | 171165 | 1 | Knob |
| 35 | 714012 | 1 | Thread Forming Screw, 1/4"-20 x 7/8" lg. |
| 36 | 176899 | 1 | Link |
| 37 | 719001 | 1 | Plain Washer, 3/8" |
| 38 | 720002 | 1 | Lock Washer, 3/8" |
| 39 | 717003 | 1 | Hex Nut, Full, 3/8"-16 |
| 40 | 175947 | 1 | Clutch Rod |

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|-------------------------------------------------|
| 41 | 719001 | 1 | Plain Washer, 3/8" |
| 42 | 722006 | 1 | Cotter Pin, 1/8" x 1" lg. |
| 43 | 176796 | 1 | Rod Guide Assembly |
| 44 | 176797 | 2 | Rod Guide |
| 45 | 101025 | 1 | Washer |
| 46 | 118240 | 1 | Retaining Ring |
| 47 | 161166 | 1 | Shoulder Bolt |
| 48 | 718064 | 1 | Flange Lock Nut, 3/8"-26 |
| 49 | 177365 | 1 | Spring |
| 50 | 177365 | 1 | Spring |
| 51 | 105201 | 1 | Set Collar |
| 52 | 713001 | 1 | Set Screw, 1/4"-20x3/8"lg. |
| 53 | 176014 | 1 | Quadrant |
| 54 | 715083 | 2 | Swageform Screw, 5/16"-18 x 1/2" lg. |
| 55 | 165067 | 1 | Brake Drum |
| 56 | 713503 | 2 | Set Screw, 5/16"-18x5/16"lg. |
| 57 | 176638 | 1 | Brake Band Assembly (Includes Ref. No. 59 & 60) |
| 58 | 156136 | 1 | Brake Lining |
| 59 | 724502 | 3 | Rivet |
| 60 | 718064 | 1 | Flange Nut, 3/8"-26 |
| 61 | 176669 | 1 | Brake Rod |
| 62 | 162085 | 1 | Spring |
| 63 | 719002 | 1 | Plain Washer, 5/16" |
| 64 | 717511 | 1 | Hex Nut, Full, Lock, 5/16"-18 |
| 65 | 176730 | 1 | Clutch Rod Assembly |
| 66 | 717001 | 4 | Hex Nut, Full, 3/8"-16 |
| 67 | 176864 | 1 | Parking Brake Rod |
| 68 | 717001 | 1 | Hex Nut, Full, 3/8"-16 |
| 69 | 153010 | 1 | Spring |
| 70 | 8191047 | 1 | Spring |
| 71 | 717525 | 1 | Hex Nut, Elastic, 5/16"-18 |
| 72 | 176865 | 1 | Hub |
| 73 | 153093 | 1 | Spring |
| 74 | 176866 | 1 | Lever |
| 75 | 176663 | 1 | Pedal Assembly |
| 76 | 718064 | 1 | Flange Nut, 3/8"-26 |
| 77 | 719001 | 1 | Plain Washer, 3/8" |
| 78 | 722001 | 3 | Cotter Pin, 3/32"x3/4"lg. |
| 79 | 176551 | 2 | Support Pivot |
| 80 | 715057 | 4 | Hex Capscrew, 1/4"-20 x 3/4" lg. |
| 81 | 719006 | 4 | Plain Washer, 1/4" |
| 82 | 718049 | 4 | Flange Nut, 1/4"-24 |
| 83 | 717510 | 1 | Hex Nut, Full, Lock, 3/8-16" |



IF TRANSMISSION PULLEYS (4) REMOVED, BE SURE TO COMPRESS PULLEYS ON CENTER DISC CLUTCH (7) WHEN INSTALLING BEFORE TIGHTENING SET COLLAR SET SCREW (13).

TRANSMISSION



TRANSMISSION

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|---------------------------------------------------|
| 1 | 175329 | 1 | Gear Case Assy. (Incl. Ref. Nos. 2 thru 8 and 59) |
| 2 | 175330 | 1 | Gear Case |
| 3 | 723007 | 2 | Roll Pin |
| 4 | 163022 | 1 | Bushing |
| 5 | 163050 | 1 | Expansion Plug |
| 6 | 101042 | 2 | Bushing, Ball, Half |
| 7 | 723025 | 1 | Roll Pin |
| 8 | 176619 | 1 | Shift Rod Assembly |
| 9 | 726003 | 1 | Pipe Plug |
| 10 | 726252 | 2 | Pipe Plug |
| 11 | 8061048 | 1 | Retaining Ring |
| 12 | 165004 | 1 | Shift Shaft, Rev-Lo |
| 13 | 720006 | 1 | Lock Washer, 7/16" |
| 14 | 717022 | 1 | Hex Nut, Full, 7/16" |
| 15 | 171364 | 1 | Shift Fork, Hi-Lo |
| 16 | 154262 | 1 | Ball |
| 17 | 171456 | 1 | Spring |
| 18 | 715133 | 1 | Hex Capscrew, 5/16"-18 x 5/16" lg. |
| 19 | 175270 | 1 | Pulley Shaft |
| 20 | 156084 | 1 | Oil Seal |
| 21 | 156085 | 2 | Washer |
| 22 | 8061048 | 2 | Retaining Ring |
| 23 | 170453 | 1 | Key |
| 24 | 156087 | 1 | Pinion Assy., Hi-Lo |
| 25 | 156084 | 1 | Oil Seal |
| 26 | 156089 | 2 | Washer |
| 27 | 165009 | 1 | Shaft and Gear Assembly (Incl. Ref. Nos. 28-29) |
| 28 | 165010 | 1 | Brake Shaft |
| 29 | 165011 | 1 | Gear Cluster Assembly |
| 30 | 156292 | 1 | Dowel Pin |

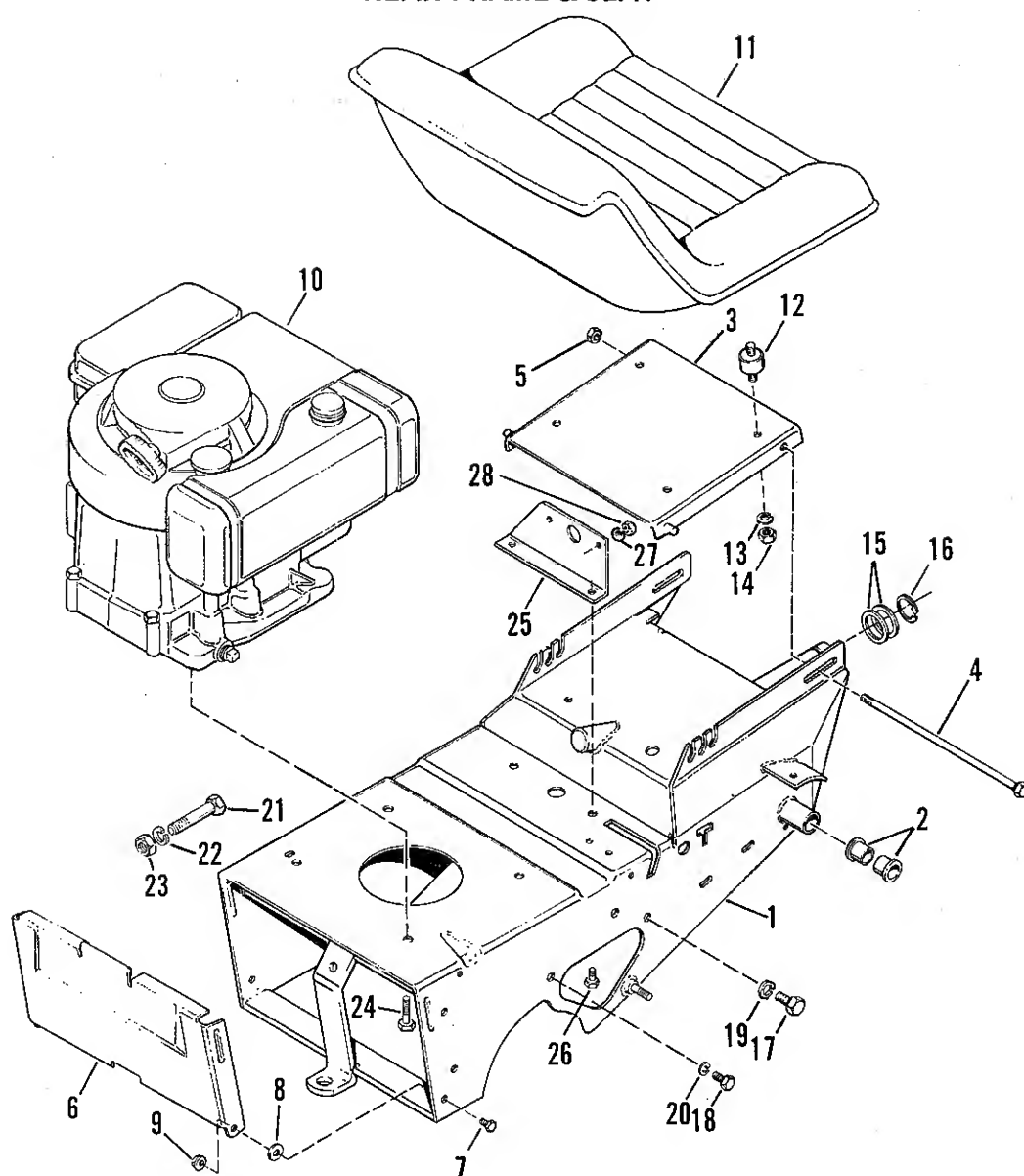
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|-----------------------------------------------|
| 31 | 177811 | 1 | Axle Housing Assembly (Includes Ref. No. 32) |
| 32 | 163021 | 2 | Bushing |
| 33 | 163012 | 1 | Oil Seal |
| 34 | 156099 | 1 | Oil Seal |
| 35 | 161130 | 1 | Special Capscrew |
| 36 | 705031 | 2 | Hex Capscrew, 3/8"-16 x 7/8" lg. |
| 37 | 720002 | 2 | Lock Washer, 3/8" |
| 38 | 175312 | 1 | R. H. Axle Assembly |
| 39 | 175311 | 2 | Washer |
| 40 | 175314 | 1 | L. H. Axle Assembly |
| 41 | 156002 | 1 | Differential Plate |
| 42 | 175328 | 1 | Drive Gear Assembly |
| 43 | 121083 | 4 | Spindle |
| 44 | 158579 | 4 | Pinion |
| 45 | 121084 | 2 | Spacer |
| 46 | 162085 | 2 | Spring |
| 47 | 715043 | 4 | Hex Capscrew, 3/8"-16 x 2-1/2" lg. |
| 48 | 717510 | 4 | Hex Nut, Full, Lock 3/8"-16 |
| 49 | 175331 | 1 | Gear Cover Assy. (Incl. Ref. Nos. 50 thru 53) |
| 50 | 175332 | 1 | Cover |
| 51 | 163021 | 2 | Bushing |
| 52 | 163074 | 1 | Expansion Plug |
| 53 | 163022 | 2 | Bushing |
| 54 | 163012 | 1 | Oil Seal |
| 55 | 156103 | 1 | Gasket |
| 56 | 705019 | 10 | Hex Capscrew, 5/16"-18 x 1-1/4" lg. |
| 57 | 720001 | 10 | Lock Washer, 5/16" |
| 58 | 725505 | 1 | Key, 5/32" x 5/8" |
| 59 | 156072 | 1 | Bearing |



FRONT FRAME & STEERING

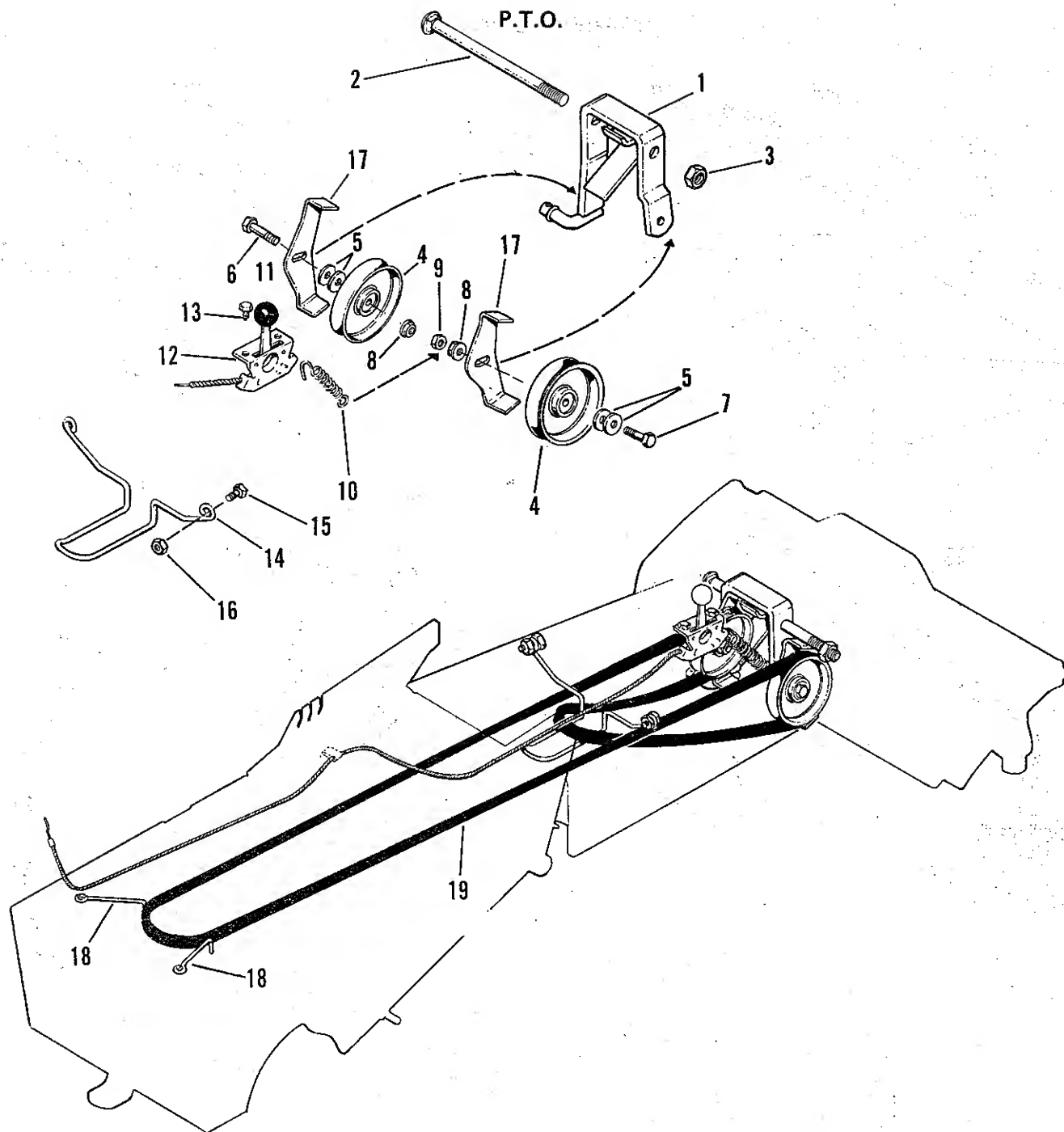
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|---------------------------------------|
| 1 | 175452 | 1 | Front Frame Assembly |
| 2 | 176440 | 4 | Bushing |
| 3 | 176444 | 3 | Bushing |
| 4 | 176441 | 2 | Picot Bushing |
| 5 | 175651 | 1 | L.H. Spindle |
| 6 | 175654 | 1 | R.H. Spindle |
| 7 | 106787 | 1 | Clip |
| 8 | 157286 | 2 | Retaining Ring |
| 9 | 176711 | 1 | Tie Rod |
| 10 | 158578 | 2 | Spring |
| 11 | 7105042 | 2 | Shoulder Bolt |
| 12 | 718064 | 2 | Flange Nut, 3/8"-26 |
| 13 | 175676 | 1 | Drag Link |
| 14 | 154177 | 2 | Bushing |
| 15 | 719002 | 2 | Plain Washer, 5/16" |
| 16 | 720002 | 2 | Lock Washer, 3/8" |
| 17 | 705016 | 2 | Hex Capscrew, 3/8"-16 x 1-1/4" lg. |
| 18 | 717003 | 2 | Hex Nut, Full, 3/8"-16 |
| 19 | 175617 | 1 | Steering Gear |
| 20 | 178490 | 1 | Washer |
| 21 | 154177 | 1 | Bushing |
| 22 | 178489 | 1 | Special Washer |
| 23 | 175613 | 1 | Steering Pinion Assembly |
| 24 | 121210 | 1 | Washer |
| 25 | 722010 | 1 | Cotter Pin, 1/8" x 1-1/4" lg. |
| 26 | 176389 | 1 | Steering Support |
| 27 | 176391 | 1 | Rear Panel |
| 28 | 714003 | 3 | Self-Tapping Screw, No. 10 x 1/2" lg. |
| 29 | 715060 | 3 | Flange Hd. Screw |
| 30 | 157077 | 1 | Bushing |
| 31 | 718032 | 3 | Retainer Nut |
| 32 | 158223 | 1 | Washer (As Required) |
| 33 | 176501 | 1 | Steering Wheel |
| 34 | 715046 | 1 | Hex Capscrew, 5/16"-18 x 1-1/4" lg. |
| 35 | 717511 | 1 | Hex Nut, Full, Lock, 5/16"-18 |
| 36 | 176809 | 1 | L.H. Foot Pad |
| 37 | 176810 | 1 | R.H. Foot Pad |
| 38 | 172040 | 1 | Handle |
| 39 | 1650149 | 1 | Knob |
| 40 | 1650145 | 1 | Arm Assembly |
| 41 | 722016 | 1 | Cotter Pin |
| 42 | 718064 | 1 | Flange Hex Nut |
| 43 | 715182 | 1 | Whiz Lock Screw, 3/8"-16 x 1-1/4" lg. |
| 44 | 718073 | 1 | Flange Nut, 3/8"-26 |
| 45 | 719002 | 2 | Plain Washer, 5/16" |
| 46 | 101025 | 1 | Washer |
| 47 | 1650139 | 1 | Rod |

REAR FRAME & SEAT



| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|----------------------------------|
| 1 | 178007 | 1 | Rear Frame Assembly |
| 2 | 108419 | 2 | Bushing |
| 3 | 176491 | 1 | Seat Plate Assembly |
| 4 | 176848 | 1 | Special Screw, 3/8"-16 x 10" lg. |
| 5 | 718064 | 1 | Flange Nut, 3/8"-16 |
| 6 | 176494 | 1 | Rear Cover |
| 7 | 705015 | 2 | Hex Capscrew, 1/4"-20 x 5/8" lg. |
| 8 | 166161 | 2 | Nylon Washer |
| 9 | 718049 | 2 | Flange Nut, 1/4"-20 |
| 10 | 177975 | 1 | Engine (Mfg. No. 998) |
| | 177974 | 1 | Engine (Mfg. No. 1000) |
| 11 | 176495 | 1 | Seat Assembly |
| 12 | 157094 | 4 | Connector |
| 13 | 720001 | 4 | Lockwasher, 5/16" |
| 14 | 717001 | 4 | Hex Nut, 5/16"-18 |
| 15 | 153088 | 2 | Washer |

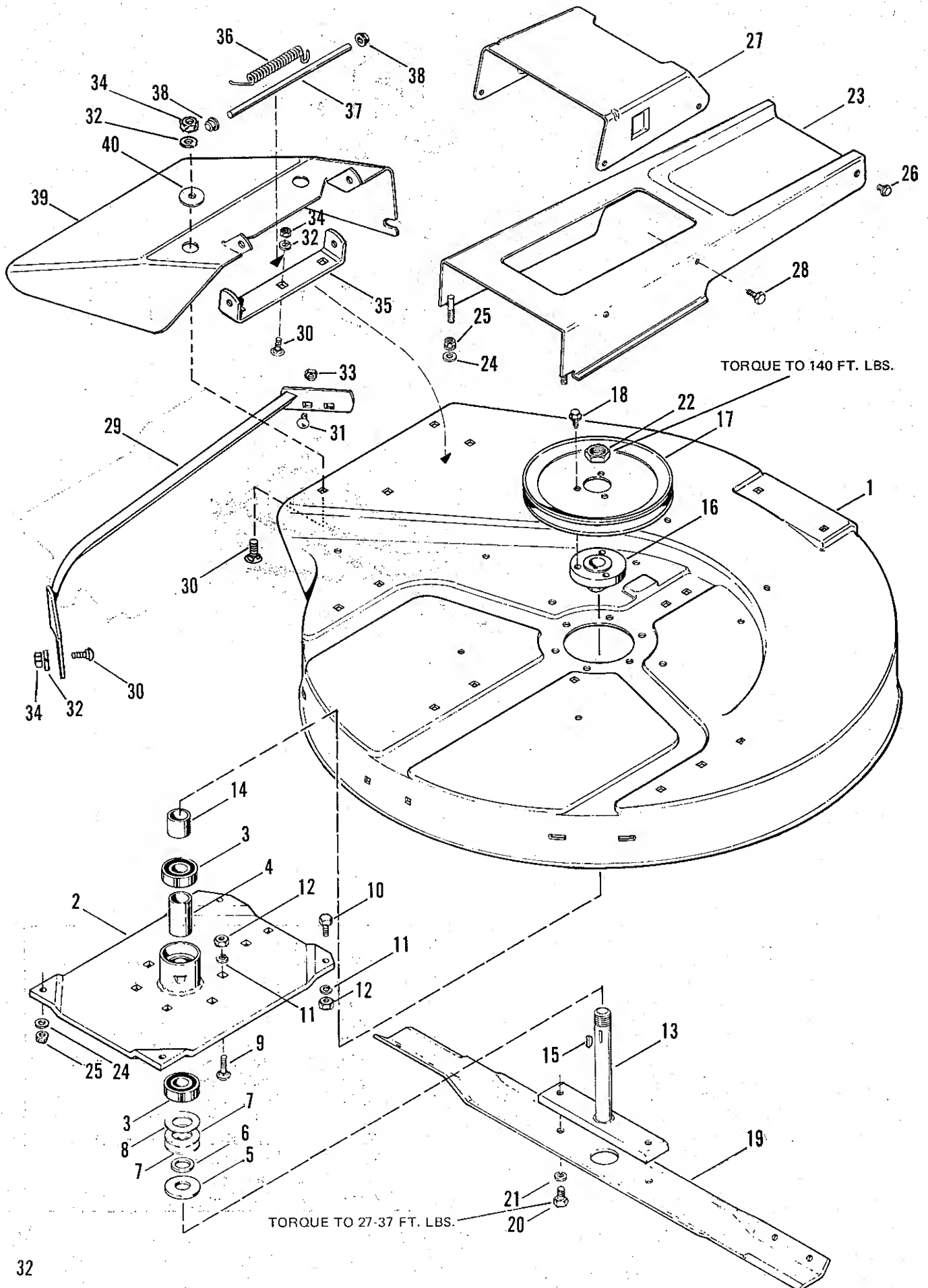
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|-------------------------------------|
| 16 | 158396 | 1 | Retaining Ring |
| 17 | 705040 | 2 | Hex Capscrew, 7/16"-14 x 3/4" lg. |
| 18 | 705004 | 1 | Hex Capscrew, 3/8"-16 x 3/4" lg. |
| 19 | 720006 | 2 | Lockwasher, 7/16" |
| 20 | 720002 | 2 | Lockwasher, 3/8" |
| 21 | 715167 | 1 | Hex Capscrew, 7/16"-14 x 2-3/4" lg. |
| 22 | 720006 | 1 | Lockwasher, 7/16" |
| 23 | 717022 | 1 | Hex Nut, 7/16"-14 |
| 24 | 715079 | 4 | Special Screw, 3/8"-16 x 1-1/4" lg. |
| 25 | 176836 | 1 | Engine Plate |
| 26 | 715114 | 2 | Hex Capscrew, 3/8"-16 x 1/2" lg. |
| 27 | 720001 | 2 | Lockwasher, 5/16" |
| 28 | 717001 | 2 | Hex Nut, Full, 5/16"-18 |



| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|------------------------------------|
| 1 | 176749 | 1 | PTO Bracket Assembly |
| 2 | 702030 | 1 | Carriage Bolt, 1/2"-13 x 8" lg. |
| 3 | 718063 | 1 | Lock Nut, 1/2"-13 |
| 4 | 175954 | 2 | Pulley |
| 5 | 157424 | 4 | Special Washer |
| 6 | 715045 | 1 | Hex Capscrew, 3/8"-16 x 1-3/4" lg. |
| 7 | 715035 | 1 | Hex Capscrew, 3/8"-16 x 2" lg. |
| 8 | 718064 | 2 | Flange Nut, 3/8"-26 |
| 9 | 717524 | 1 | Lock Nut, 3/8"-16 |

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|-----------------------------------|
| 10 | 106681 | 1 | Spring |
| 11 | 172038 | 1 | Knob |
| 12 | 176868 | 1 | Throttle Control |
| 13 | 715124 | 2 | Taptite Screw, 1/4"-20 x 3/8" |
| 14 | 176964 | 1 | Belt Guide |
| 15 | 705001 | 2 | Hex Capscrew, 5/16"-18 x 7/8" lg. |
| 16 | 717511 | 2 | Hex Nut, Lock, 5/16"-18 |
| 17 | 176913 | 2 | Belt Guide |
| 18 | 158499 | 2 | Belt Stop |
| 19 | 176451 | 1 | "V" Belt |

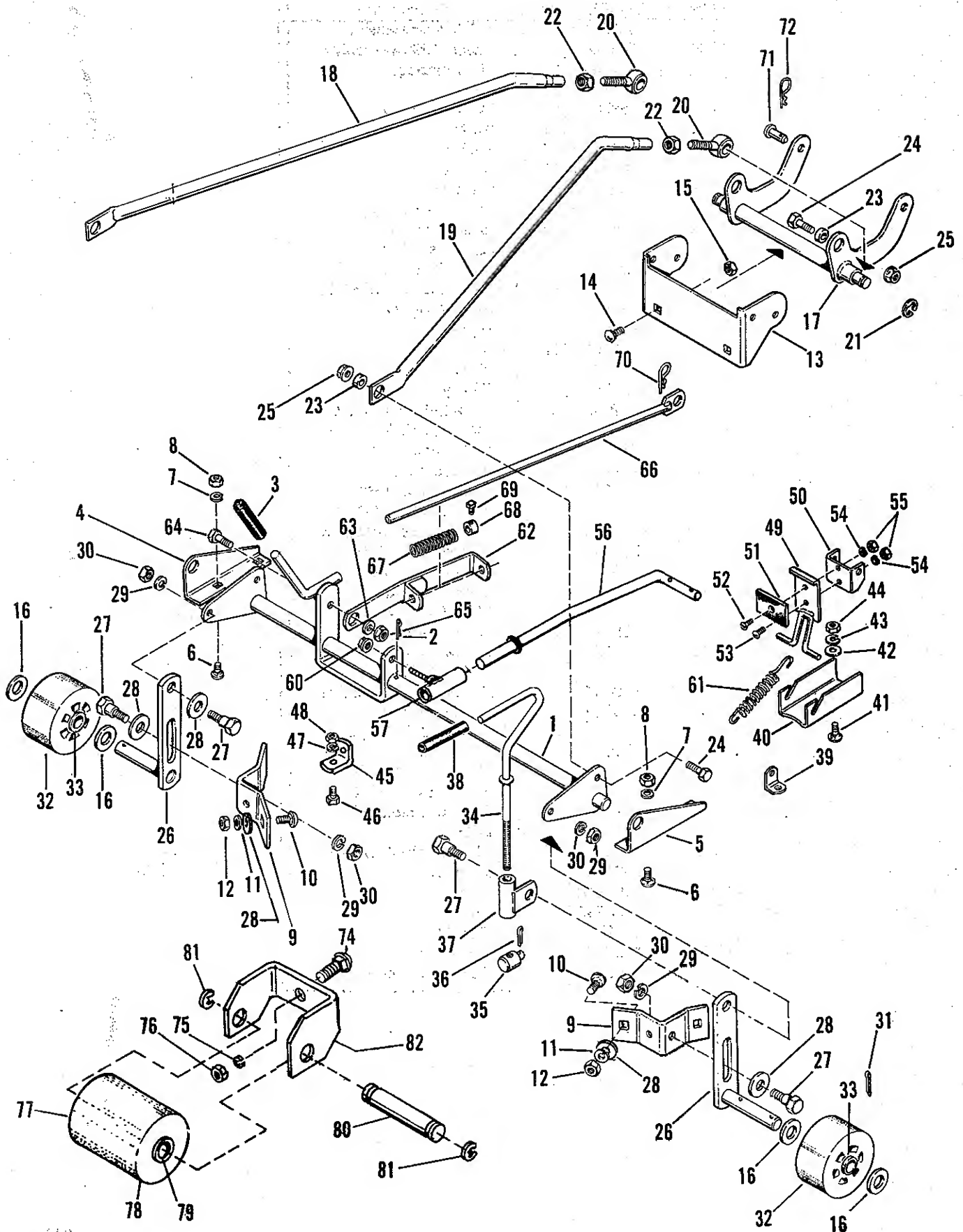
MOWER HOUSING



MOWER HOUSING

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|--------------------------------------------|
| 1 | 1608351 | 1 | 30" Mower Housing |
| 2 | 176986 | 1 | Arbor Tube Assembly |
| 3 | 108202 | 2 | Ball Bearings |
| 4 | 176984 | 1 | Spacer |
| 5 | 108182 | 1 | Washer, Arbor |
| 6 | 108181 | 1 | Washer |
| 7 | 108472 | 2 | Washer |
| 8 | 108257 | 1 | Washer |
| 9 | 702024 | 6 | Carriage Bolt, 5/16"-18 x 1" lg. |
| 10 | 705007 | 2 | Hex Capscrew, 5/16"-18 x 1" lg. |
| 11 | 720001 | 8 | Lock Washer, 5/16" |
| 12 | 717001 | 8 | Hex Nut, Full, 5/16"-18 |
| 13 | 176889 | 1 | Arbor Assembly |
| 14 | 176843 | 1 | Spacer |
| 15 | 725006 | 1 | Key |
| 16 | 176340 | 1 | Pulley Hub |
| 17 | 175941 | 1 | Pulley |
| 18 | 177932 | 3 | Thread Forming Screw 3/8"-16 x 3/4" lg. |
| 19 | 176839 | 1 | 30" Blade |
| 20 | 715119 | 2 | Hex Capscrew |
| 21 | 720002 | 2 | Lock Washer, 3/8" |
| 22 | 717517 | 1 | Hex Jam Nut, 3/4"-16 |
| 23 | 176772 | 1 | Lower Cover Assembly |
| 24 | 719002 | 4 | Plain Washer, 5/16" |
| 25 | 718050 | 4 | Flange Nut, 5/16" |
| 26 | 715114 | 2 | Hex Capscrew, 3/8"-16 x 1/2" lg. |
| 27 | 176791 | 1 | Upper Cover |
| 28 | 715067 | 2 | Screw, Taptite, 1/4"-20 x 3/8" |
| 29 | 1608374 | 1 | Stone Guard Assembly |
| 30 | 702015 | 6 | Carriage Bolt, 5/16"-18 x 3/4" lg. |
| 31 | 703011 | 2 | Carriage Bolt, 5/16"-18 x 1/2" lg. |
| 32 | 720001 | 7 | Lock Washer, 5/16" |
| 33 | 717530 | 2 | Hex Nut, Full, Lock, 5/16"-18 |
| 34 | 717001 | 7 | Hex Nut, Full, 5/16"-18 |
| 35 | 1608281 | 1 | Support |
| 36 | 1608348 | 1 | Spring |
| 37 | 1608293 | 1 | Pin |
| 38 | 170015 | 2 | Push Nut |
| 39 | 1608357 | 1 | Deflector |
| 40 | 8161199 | 2 | Special Washer |

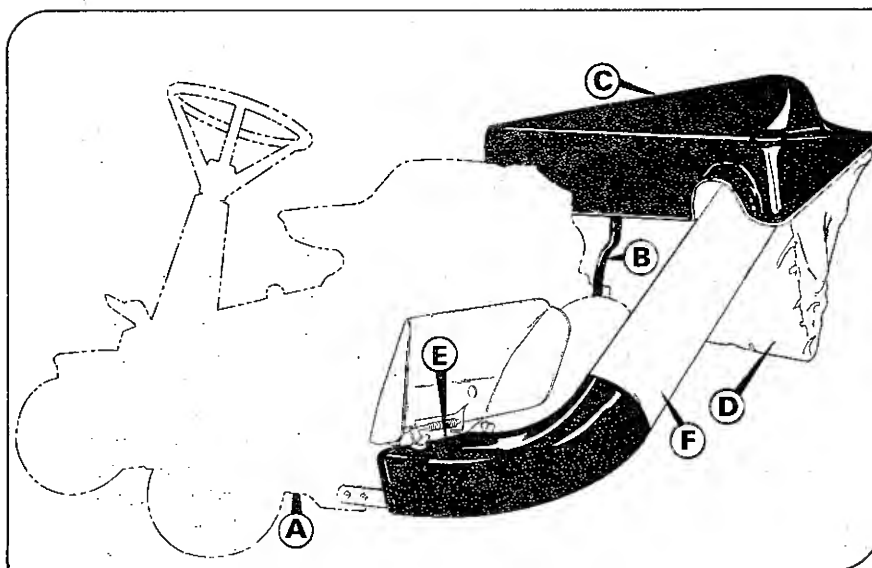
MOWER CONTROL



MOWER CONTROL

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|------------------------------------------|
| 1 | 175943 | 1 | Control Arm Assembly |
| 2 | 722010 | 2 | Cotter Pin, 1/8"x 1-1/4" |
| 3 | 161105 | 1 | Handle Grip |
| 4 | 176769 | 1 | L.H. Pivot Bracket |
| 5 | 176770 | 1 | R.H. Pivot Bracket |
| 6 | 702022 | 4 | Carriage Bolt, 5/16"-18 x 5/8" lg. |
| 7 | 720001 | 4 | Lock Washer, 5/16" |
| 8 | 717001 | 4 | Hex Nut, Full, 5/16"-18 |
| 9 | 1602211 | 2 | Roller Bracket Support |
| 10 | 702022 | 4 | Carriage Bolt, 5/16"-18 x 5/8" lg. |
| 11 | 720001 | 4 | Lock Washer, 5/16" |
| 12 | 717001 | 4 | Hex Nut, Full, 5/16-18 |
| 13 | 176788 | 1 | Front Mower Bracket |
| 14 | 715082 | 2 | Whiz Lock Screw, 5/16"-18 x 3/4" |
| 15 | 718033 | 2 | Flange Nut, 5/16" |
| 16 | 177351 | 4 | Washer |
| 17 | 175935 | 1 | Rocker Arm Assembly |
| 18 | 175942 | 1 | L.H. Adjusting Arm |
| 19 | 176736 | 1 | R.H. Adjusting Arm |
| 20 | 157215 | 2 | Eye Bolt |
| 21 | 158399 | 2 | Retaining Ring |
| 22 | 717016 | 2 | Hex Jam Nut, 1/2-20 |
| 23 | 153081 | 4 | Spacer |
| 24 | 715096 | 4 | Hex Capscrew, 3/8"-16 x 1" lg. |
| 25 | 718064 | 4 | Flange Nut |
| 26 | 1607603 | 2 | Roller Support Assembly |
| 27 | 1602186 | 4 | Shoulder Bolt |
| 28 | 719003 | 6 | Plain Washer, 7/16" |
| 29 | 720002 | 4 | Lock Washer, 3/8" |
| 30 | 717003 | 4 | Hex Nut, Full, 3/8"-16 |
| 31 | 722011 | 4 | Cotter Pin, 3/16" x 1" lg. |
| 32 | 1603206 | 2 | Roller Assembly (Includes 2 Ref. No. 33) |
| 33 | 108419 | 4 | Bushing |
| 34 | 176775 | 1 | Handle |
| 35 | 108172 | 1 | Pivot |
| 36 | 722002 | 1 | Cotter Pin, 3/32" x 1" lg. |
| 37 | 176777 | 1 | Rod Guide Assembly |
| 38 | 176985 | 1 | Grip |
| 39 | 1602446 | 2 | Spring Anchor |
| 40 | 1607989 | 1 | Pivot Bracket |
| 41 | 702024 | 2 | Carriage Bolt, 5/16"-18 x 1" lg. |

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|---------------------------------------------|
| 42 | 719002 | 2 | Plain Washer, 5/16" |
| 43 | 720001 | 2 | Lock Washer, 5/16" |
| 44 | 717001 | 2 | Hex Nut Full, 5/16-18 |
| 45 | 122052 | 1 | Bracket |
| 46 | 917397 | 1 | Hex Capscrew, 5/16"-18 x 5/8" lg. |
| 47 | 720001 | 1 | Lock Washer, 5/16" |
| 48 | 717001 | 1 | Hex Nut, Full, 5/16"-18 |
| 49 | 176783 | 1 | Brake Support Assembly |
| 50 | 176785 | 1 | Brake Rod Anchor |
| 51 | 1610590 | 1 | Brake Sheave |
| 52 | 709500 | 1 | Flat Hd. Mach. Screw No. 10 - 24 x 5/8" lg. |
| 53 | 710012 | 1 | Rd. Hd. Mach. Screw No. 10-24 x 1/2" lg. |
| 54 | 720011 | 2 | No. 10 Lock Washer |
| 55 | 717023 | 2 | Hex Nut No. 10-24 |
| 56 | 178547 | 1 | Brake Rod |
| 57 | 178548 | 1 | Rod Guide Assy. |
| 58 | 1603204 | 1 | Center Roller Bracket |
| 59 | 108711 | 1 | Shoulder Bolt |
| 60 | 717510 | 1 | Hex Nut, Full, Lock, 3/8"-16 |
| 61 | 1602894 | 2 | Spring |
| 62 | 176743 | 1 | Rod Guide Assembly |
| 63 | 153081 | 1 | Spacer |
| 64 | 705005 | 1 | Hex Capscrew, 3/8"-16 x 1" lg; |
| 65 | 718064 | 1 | Flange Nut |
| 66 | 176874 | 1 | Clutch Rod Assembly |
| 67 | 162065 | 1 | Spring |
| 68 | 105201 | 1 | Set Collar |
| 69 | 713001 | 1 | Set Screw, 1/4"-20x3/8"lg. |
| 70 | 8161045 | 1 | Spring Clip |
| 71 | 156306 | 2 | Pin |
| 72 | 106788 | 3 | Spring Clip |
| 74 | 702022 | 2 | Carriage Bolt |
| 75 | 720001 | 2 | Lockwasher |
| 76 | 717001 | 2 | Hex Nut |
| 77 | 108431 | 1 | Roller Assembly |
| 78 | 108178 | 1 | Roller |
| 79 | 108419 | 1 | Bushing |
| 80 | 1603205 | 1 | Center Roller Shaft |
| 81 | 1602155 | 2 | "E" Ring |



Assembly Instructions

For

(MFG. NO. 1030)

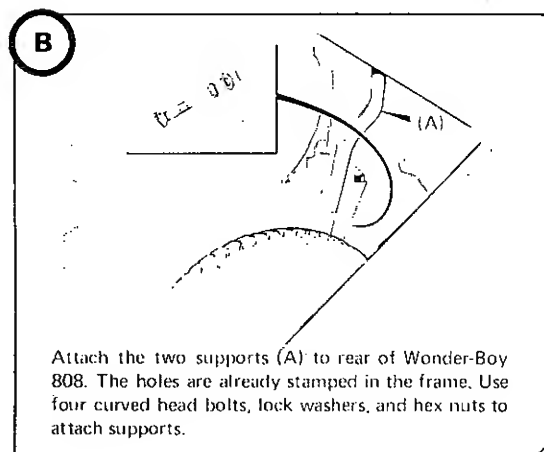
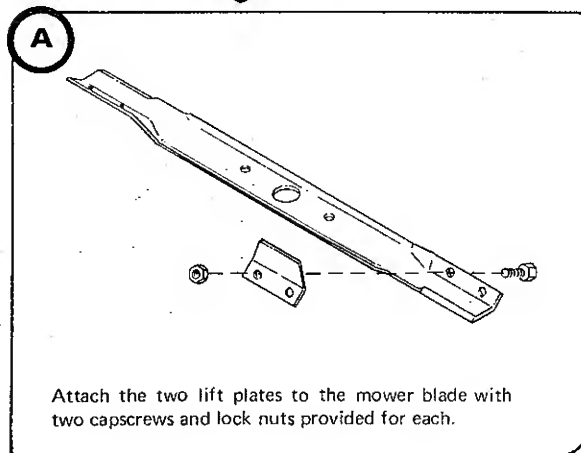
REAR MOUNTED GRASS CATCHER

(MFG. NO. 975)

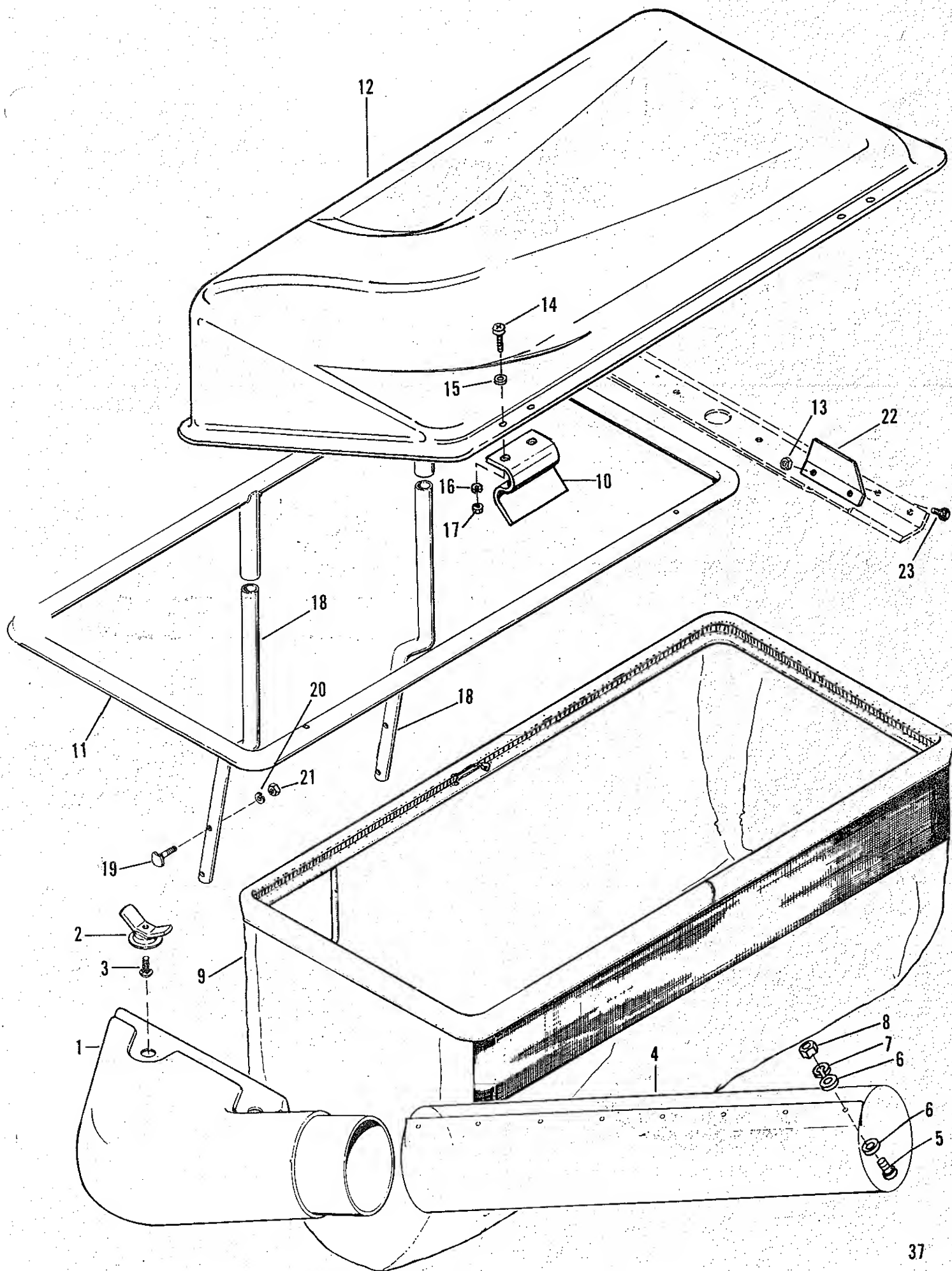
FRONT WEIGHT, OPTIONAL

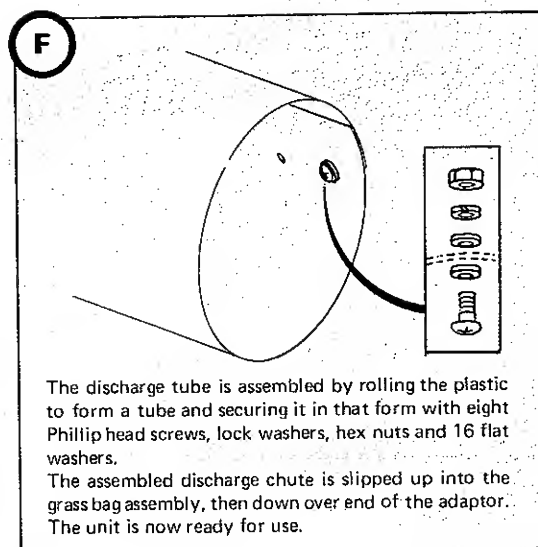
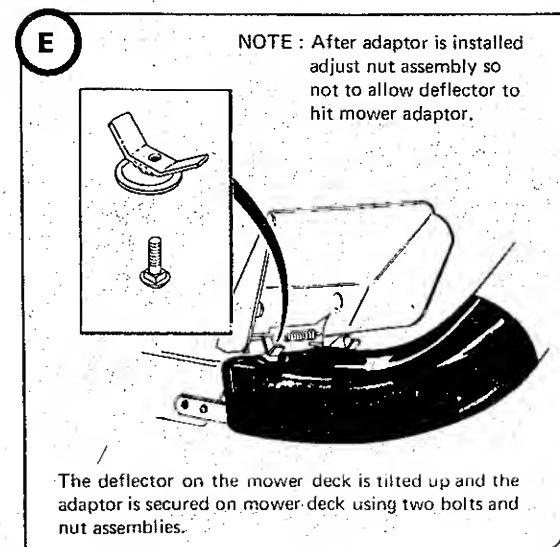
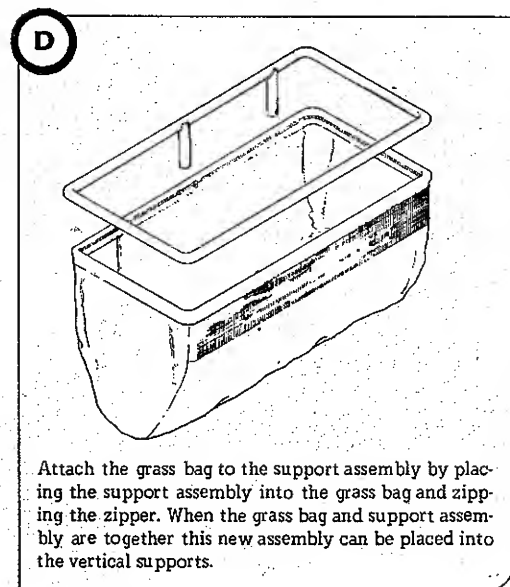
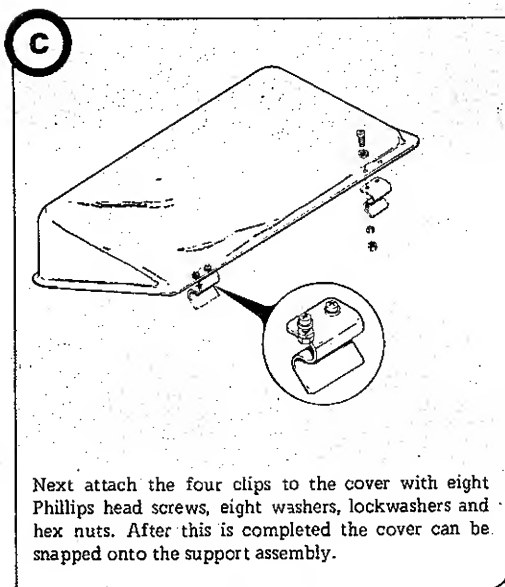
ASSEMBLE IN ALPHABETICAL ORDER OR AREAS

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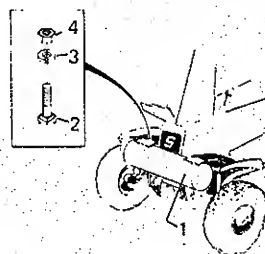
| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|---------------------------------|
| 1 | 176871 | 1 | Adaptor |
| 2 | 123103 | 2 | Nut Assembly |
| 3 | 703010 | 2 | Carriage Bolt, 5/16-18 x 1" |
| 4 | 177104 | 1 | Discharge Tube |
| 5 | 711003 | 8 | Phillips Head Screw, 10-32x1/2" |
| 6 | 719007 | 16 | Plain Washers, 3/16" |
| 7 | 721507 | 8 | Lockwasher, No. 10 |
| 8 | 717007 | 8 | Hex Nut, Full, 10-32 |
| 9 | 177086 | 1 | Grass Bag |
| 10 | 178609 | 4 | Clips |
| 11 | 178364 | 1 | Support Assembly |
| 12 | 177019 | 1 | Cover |
| 13 | 717511 | 4 | Hex Nut, Full Lock, 5/16-18 |
| 14 | 711003 | 8 | Phillips Head Screw, 10-32x1/2" |
| 15 | 719007 | 8 | Plain Washer, 3/16" |
| 16 | 721507 | 8 | Lockwasher, No. 10 |
| 17 | 717007 | 8 | Hex Nut, Full, 10-32 |
| 18 | 177096 | 2 | Vertical Support |
| 19 | 177249 | 4 | Curved Head Bolt |
| 20 | 720001 | 4 | Lockwasher, 5/16" |
| 21 | 717001 | 4 | Hex Nut, Full, 5/16-18 |
| 22 | 177243 | 2 | Lift Plate |
| 23 | 715071 | 4 | Hex Nut, Full, Lock, 5/16-18 |





NOTE: One front weight (990975) is recommended when using Rear Mounted Grass Catcher on slopes of 30 to 40 percent.

MFG. No. 975 Front Weight (Optional)



Attach counterweight assembly with two carriage bolts, lock washers and hex nuts. Holes for weight are stamped in frame and are located under rubber foot-pads. After weight is installed replace rubber foot pads over the counterweight assembly.

| Ref. No. | Part No. | Qty. Req. | Description |
|----------|----------|-----------|------------------------|
| 1 | 177397 | 1 | Counterweight Assembly |
| 2 | 702002 | 2 | Carriage Bolt |
| 3 | 720002 | 2 | Lock Washer 3/8 |
| 4 | 717003 | 2 | Hex Nut, 3/8-16 |

NOTE: When it is time to remove the cut grass from the bag, lift up on rear of cover and place it aside. Then lift grass bag and support assembly up and away from discharge tube and vertical supports. Discard cut grass completely.